

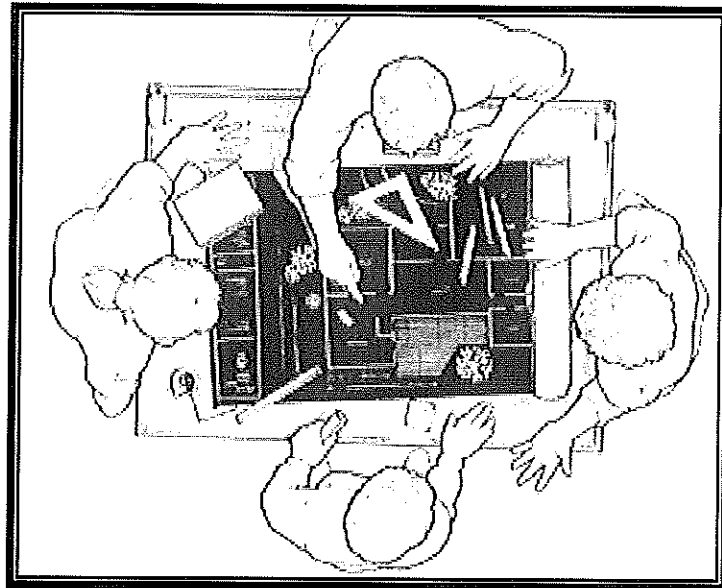
DATE: 8/3/14 BY: JBP

<input checked="" type="checkbox"/>	NO EXCEPTION TAKEN
<input type="checkbox"/>	MAKE CORRECTIONS NOTED
<input type="checkbox"/>	REVISE & RESUBMIT
<input type="checkbox"/>	REJECTED

This shop drawing review is for general conformance with contract documents only and does not relieve the contractor of his responsibility for compliance with requirements of the drawings and specifications.

Summit Construction Group
FORT WASHINGTON PA

Plumbing Submittal



CHARTER SCHOOL CHAD ROAD

Submitted by

AMERICAN PLUMBING

2/28/2014

Hajoca Corporation

6964 HIGHWAY AVE - UNIT 2
JACKSONVILLE, FL 32254

Phone: 904 786-4338

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<http://hajocajax.com>

Spec#**Table of Contents**

1	EW-C-1
2	69910	E EZSTL8LC GRY ADA BILVL WTR COOLER
3	4425	D P9704BG 11/2 PVC P TRAP W ADPTL
4	330881	BC OCR19X-C 1/2COMPX3/8COMP CP ANG STP LEAD FREE
5	4639	O 34312 20 PEX LAV SPLY
6	.....	EW-C-2
7	268885	ELKAY VRCTL8SC BI-LVL WATER COOLER
8	4425	D P9704BG 11/2 PVC P TRAP W ADPTL
9	330881	BC OCR19X-C 1/2COMPX3/8COMP CP ANG STP LEAD FREE
10	4639	O 34312 20 PEX LAV SPLY
11	.....	EW-H-1
12	143551	EEMAX EMT-4 110V 1.2KW 1PH
13	.....	EW-H-2
14	133603	AO SMITH DEL50 10KW 208V 1PH
15	70948	FLEX PH5 2.1GAL WTR EXPSN TANK
16	224345	H 50-SWHP-W 261/2X261/2 50GAL WM / CEIL MNT WTR HEATER PLATFORM
17	.....	EW-H-3
18	318792	AO SMITH DRE-80 9KW 480V 3PH
19	70949	FLEX PH12 4.8GAL DOM WTR EXPSN TANK
20	.....	EW-H-4 & EW-H-5
21	128801	AO SMITH DEL15 3KW 208V 1PHASE
22	70948	FLEX PH5 2.1GAL WTR EXPSN TANK

Disclaimer:

The specification sheets provided herein were written and provided by the product's manufacturer and not by Hajoca Corporation. Consequently, Hajoca Corporation cannot assume and disclaims any responsibility for errors, omissions or any misstatements in the product specifications provided herein.

Spec#	Table of Contents	
23	225683	H 40-SWHP-W 211/4X211/4 20GAL WM / CEIL MNT WTR HEATER PLATFORM
24	.....	FD-1
25	85124	ZURN ZN-415-P-6B-3NL DRAIN
26	.....	FS-1
27	124198	ZURN Z1900-4NL FULL GRATE
28	.....	GT-1
29	333064	ZURN Z1173-RD-800 GREASE TRAP
30	.....	HB-1
31	279073	WOODFORD MB24-3/4" WALL HYDRANT
32	.....	HD-1
33	101930	ZURN ZN-415-P-5I 3"NL
34	.....	IMB-1
35	350369	SC 696-G1010CF 1/2 SPG CPVC ABS OX BOX ICEMAKER OUTLET BOX W/ MINI-RESTER & FRAME LEAD FREE
36	.....	L-1 & L-2
37	21487	KOH K-2005-0 21X18 WHT 4CC WM ADA KGSTN LAV
38	157731	DELTA 87T105 POL CHROME TECK 1H DM SLOW CLOSE LEVER HDL 0.25GPM METERING LAV FCT
39	237478	MAINLINE ML760 11/4X6 CP 17GA BRASS COMM TAILPIECE W/ OPEN GRID STR NOT FOR POTABLE WATER USE
40	4425	D P9704BG 11/2 PVC P TRAP W ADPTL
41	330881	BC OCR19X-C 1/2COMPX3/8COMP CP ANG STP LEAD FREE
42	4342	BC 1-20A C 3/8ODX20CP LAV RISER LEAD FREE
43	338798	WI 38-ZW3870XLT 3/8 THERM MIXING VLV LF

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Spec#	Table of Contents	
44	291939	MAINLINE ML102EZ WHT LAV-GUARD TRAP & SUPPLY COVER F/ TUBULAR P-TRAP 2-ANGLE STOP & 2-SUPPLY ADA APPROVED
45	.....	U-1
46	243286	KOH K-4904-ET-0 WHT .125GPF 3/4 TOP SPUD WASHOUT BARDON URINAL
47	280650	SLOAN 3912633 186-.13YB FLUSH VALVE
48	42338	S 0310083 J212A 11/2X5 YK PIPE SPRT
49	.....	WC-1
50	237569	KOH K-4325-0 WHT EL 1.28GPF/ 1.6GPF WH 11/2 TOP SPUD ADA COM KNGSTN BOWL
51	225303	SLOAN 3910168 111-1.28 ROYAL FLUSH VALVE
52	42338	S 0310083 J212A 11/2X5 YK PIPE SPRT
53	227849	B 1955SSCT WHT EL OF LC SEAT
54	116991	ZURN Z-1203-NR4 SINGLE HORIZONTAL RIGHT HAND NH CONN CARRIER
55	.....	WC-2
56	224149	KOH K-4405-0 WHT EL 1.28GPF 11/2 TOP SPUD ADA FLUSHOMETER BOWL
57	225303	SLOAN 3910168 111-1.28 ROYAL FLUSH VALVE
58	42338	S 0310083 J212A 11/2X5 YK PIPE SPRT
59	227849	B 1955SSCT WHT EL OF LC SEAT
60	.....	WC-3
61	237059	KOH K-4406-0 WHT EL 1.28GPF TOP SPUD FLUSHOMETER BOWL
62	225303	SLOAN 3910168 111-1.28 ROYAL FLUSH VALVE
63	227849	B 1955SSCT WHT EL OF LC SEAT
64	WF-1

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Spec#	Table of Contents	
65	357248	BRADLEY MF2944-NSD-IR-LONDON WASH FOUNTAIN
66	.....	SP-1
67	324562	ZOELLER 940-0014 OIL SMART SYSTEM
68	.....	MS-1
69	26971	ZUR Z1996-24 24X24X10 MOP SRV BASIN
70	141376	ZA Z843M1-RC SRV SINK FCT NOT FOR POTABLE WATER USE
71	197960	ZUR JP1996-HH HOSE & BRKT ONLY
72	178097	ZUR JP1996-MH MOP HGR ONLY
73	.....	MV-1
74	350320	LEONARD 170-LF-BP 3/8" TMV ASSE-1070
75	.....	S-1
76	16850	ELKAY CHS1716C SS WALL MOUNT HAND WASH-UP SINK COMPLETE PACKAGE
77	.....	S-2
78	339308	GRIFFIN C75-384-44-2SFH 3 CMPTMNT SINK W/ LH&RH DRAINBOARDS
79	150245	ELKAY LK940DS20L2H WALL MT FAUCET
80	19488	MCG 151A CP SS SHELL BSKT STR W/ 11/2X4 TP
81	47865	ELKAY LK-60 3COMP CO SINK WASTE ASSY
82	111729	TS B-0425-M 1/2X2 SPLY NIPPLE (2)
83	.....	S-3
84	56870	ELKAY PSR1918 3H 20GA SS SIN BOWL SNK
85	332331	DELTA 26C3934-R6 POL CHROME CER-TECK 2H DM 8CC 2 SAN HOODED BLADE HDL KITCHEN SINK FCT W/ R6 GOOSENECK SPOUT 1.5GPM VP FLOW CONTROL AERATOR

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Spec#	Table of Contents	
86	198713	MCG 151AECO CP SS SHELL ECO-LINE BSKT STR L TP
87	4425	D P9704BG 11/2 PVC P TRAP W ADPTL
88	330881	BC OCR19X-C 1/2COMPX3/8COMP CP ANG STP LEAD FREE
89	4342	BC 1-20A C 3/8ODX20CP LAV RISER LEAD FREE
90	.....	FCO
91	27857	ZUR ZN1400 4NL NCL BRNZ CVR CO
92	COTG
93	27857	ZUR ZN1400 4NL NCL BRNZ CVR CO

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EWC-1



ELKAY[®]

SPECIFICATIONS

GENERAL

Self-contained, wall hung electric refrigerated water cooler. Chilling capacity of 50°F drinking water, based upon 80°F inlet water and 90°F ambient.

Model EZSTL8C has self-closing Easy-Touch Controls on front, left and right of each unit.

Model EZTL8C has self-closing Easy-Touch Controls on the front of each unit.

Model EZSTLDDC non-refrigerated. Same as EZSTL8C without cooling system. (Requires outlet for power cord.)

All models have a hooded stream projector with Easy-Touch Controls that require less than 3 pounds of force to activate commercial-grade solenoid based flow control. Valve with built-in flow regulator provide constant stream from 20 to 105 psi water pressure. Bubbler orifice fully protected to meet all sanitary codes.

NOTE: Minimum 40 psi supply line pressure required in special circumstances where both sides of bi-level are in use simultaneously to ensure adequate stream height. Does not apply to non-refrigerated units.

This model cooler consists of a refrigerated lower unit which requires a water supply, drain outlet and electrical supply.

ADA COMPLIANT

These Water Coolers comply with the requirements of A.D.A. (Americans with Disabilities Act) when properly installed. Unit is compliant if installed in an alcove and is also compliant when mounted on an exposed wall if a wing wall is located on the left side or if LKAPREZL apron is installed under upper unit. Also meets the guidelines for children's environments providing the floor to orifice height is 30" or less on the lower unit and proper clear floor space is provided for parallel approach. (Based on Architectural and Transportation Barriers Compliance Board final ruling.) Check Local and State Codes.

NO LEAD DESIGN

These Water Coolers are certified to be lead-free as defined by the Safe Drinking Water Act. Elkay Water Coolers are manufactured with a waterway system utilizing copper components and completely lead-free materials. These waterways have no lead because all lead materials, such as leaded brass, have been removed. All joints are brazed using silver solder only. No lead solder is permitted. A strainer with an easily cleanable screen is provided to allow trapping and convenient removal of waterborne particulate of 140 microns and larger prior to their entry into the water cooler.

CAPACITIES CHART

Model Number	Base Rate	**GPH of 50°F Drinking Water			Rated Watts	Full Load Amps	Glass† Filler Option	Ship. Wt. Lbs.
		Room Temperature °F						
		70°F	80°F	90°F				
EZSTL8C	8.0	9.7	8.8	8.0	370	4.0	Yes	89
EZTL8C	8.0	9.7	8.8	8.0	370	4.0	Yes	89
EZTLDDC	—	—	—	—	—	—	Yes	66
EZSTLDDC	—	—	—	—	—	—	Yes	66

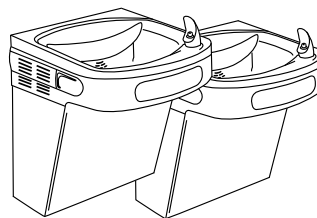
**Based on 80°F inlet water temperature. †Glass filler available at extra cost. Requires factory preparation to receive glass filler. Upper unit only.

Rated watts shown are based on operational (run) time, in compliance with A.R.I. Standard 1010 conditions. Specific applications will determine the actual watts consumed per hour. Watts consumed will be based on number of people served per hour (usage), ambient temperatures, and inlet water temperature.

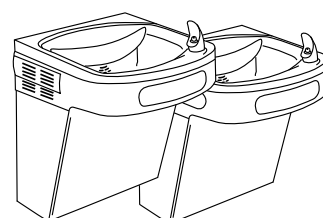
COOLING SYSTEM

Motor Compressor: Hermetically sealed, reciprocating type, 115VAC, 60Hz single phase. Sealed-in lifetime oil supply. Equipped with electric cord and three prong molded rubber plug (domestic models).

Two Station Wall Mount Water Coolers Barrier-Free Access (Adult and Child) NSF/ANSI 61 Compliant – Models EZTL8C, EZSTL8C, EZTLDDC and EZSTLDDC



Model EZSTL8C



Model EZTL8C

RATED FOR INDOOR APPLICATIONS ONLY

Condenser: Fan cooled, copper tube with aluminum fins. Fan motor is permanently lubricated.

Cooling Unit: Combination tube-tank type. Tube portion is continuous coil of copper tubing. Tank is stainless steel. Fully insulated with EPS foam which meets Underwriters Laboratories Inc. requirements for self-extinguishing material.

Refrigerant Control: Refrigerant HFC-134a is controlled by accurately calibrated capillary tube for positively trouble-free operation.

Temperature Control: Enclosed adjustable thermostat is factory preset. Requires no adjustment other than for altitude requirements. Easily accessible.

CONSTRUCTION

Frame: Galvanized structural steel chassis supports refrigeration system and fastens to wall. Provides increased structural integrity and rigidity to cooler.

Stainless Steel Basin: One piece polished to a uniform Elkay bright luster finish. Basin has integral drain grid, embossed bubbler pad. No exposed fasteners.

Exclusive Flexi-Guard® Safety Bubbler*: Innovative design utilizes an infused anti-microbial pliable polyester elastomer to prevent accidental mouth injuries. Flexes on impact, then returns to original position. Strong. Abrasion-resistant. Anti-sweat. Keyed in location to prevent rotation.

Upper Shroud: Contoured shock-absorbing, provides additional protection against accidental injury. No exposed fasteners.

Lower Shroud: One piece easy to remove and replace. Allows access to internal components from three sides.

Cabinet: Cabinet design allows for flush to wall mounting. No recess space is required.

Color Selection: Unless otherwise specified cabinet is two-tone gray upper shroud with textured gray lower shroud. Stainless Steel lower shrouds available at extra cost.

Protected by Elkay's 5 Year Limited Warranty on the refrigeration system of the unit.

Elkay Pressure-Type Water Coolers are designed to operate on 20 psi to 105 psi supply line pressure. If inlet pressure is above 105 psi, a pressure regulator must be installed in the supply line. Any damage caused by reason of connecting this product to supply line pressures lower than 20 psi or higher than 105 psi is not covered by the warranty.

STANDARDS

 Elkay Electric Air Cooled Water Coolers are listed by Underwriters Laboratories Inc. and comply with both Canadian and U.S. requirements.

These units comply with A.R.I. Standard 1010.

This cooler is certified by WQA to lead-free compliance including NSF/ANSI 61-ANNEX G, AB 1953.

In keeping with our policy of continuing product improvement, Elkay reserves the right to change product specifications without notice. Please visit elkayusa.com for most current version of Elkay product specification sheets.

This specification describes an Elkay product with design, quality and functional benefits user. When making a comparison of other producers' offerings, be certain these features are overlooked.

Elkay

elkayusa.com

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Oak Brook, IL 60523

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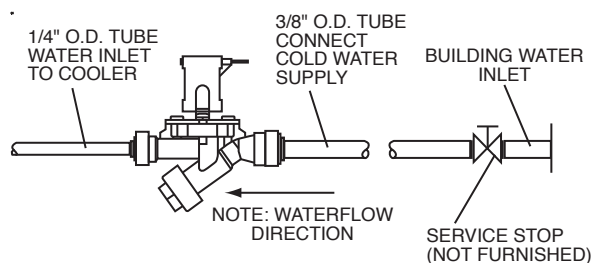
(Rev. 4/11) 12-

69910



Two Station Wall Mount Water Coolers
Barrier-Free Access (Adult and Child)
NSF/ANSI 61 Compliant – Models EZTL8C,
EZSTL8C, EZTLDDC and EZSTLDDC

ELKAY®
ROUGH-IN DIMENSIONS

**IMPORTANT!****INSTALLER PLEASE NOTE:**

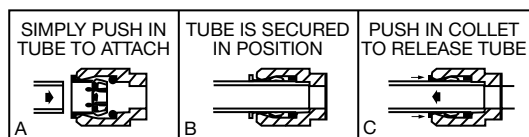
This water cooler has been designed and built to provide water to the user which has not been altered by materials in the cooler waterways.

The grounding of electrical equipment such as telephone, computers, etc., to water lines is a common procedure. This grounding may be in the building but may also occur away from the building. This grounding can cause electrical feedback into a water cooler creating an electrolysis which creates a metallic taste or causes an increase in the metal content of the water. This condition is avoidable by installing the cooler using the proper materials as shown below.

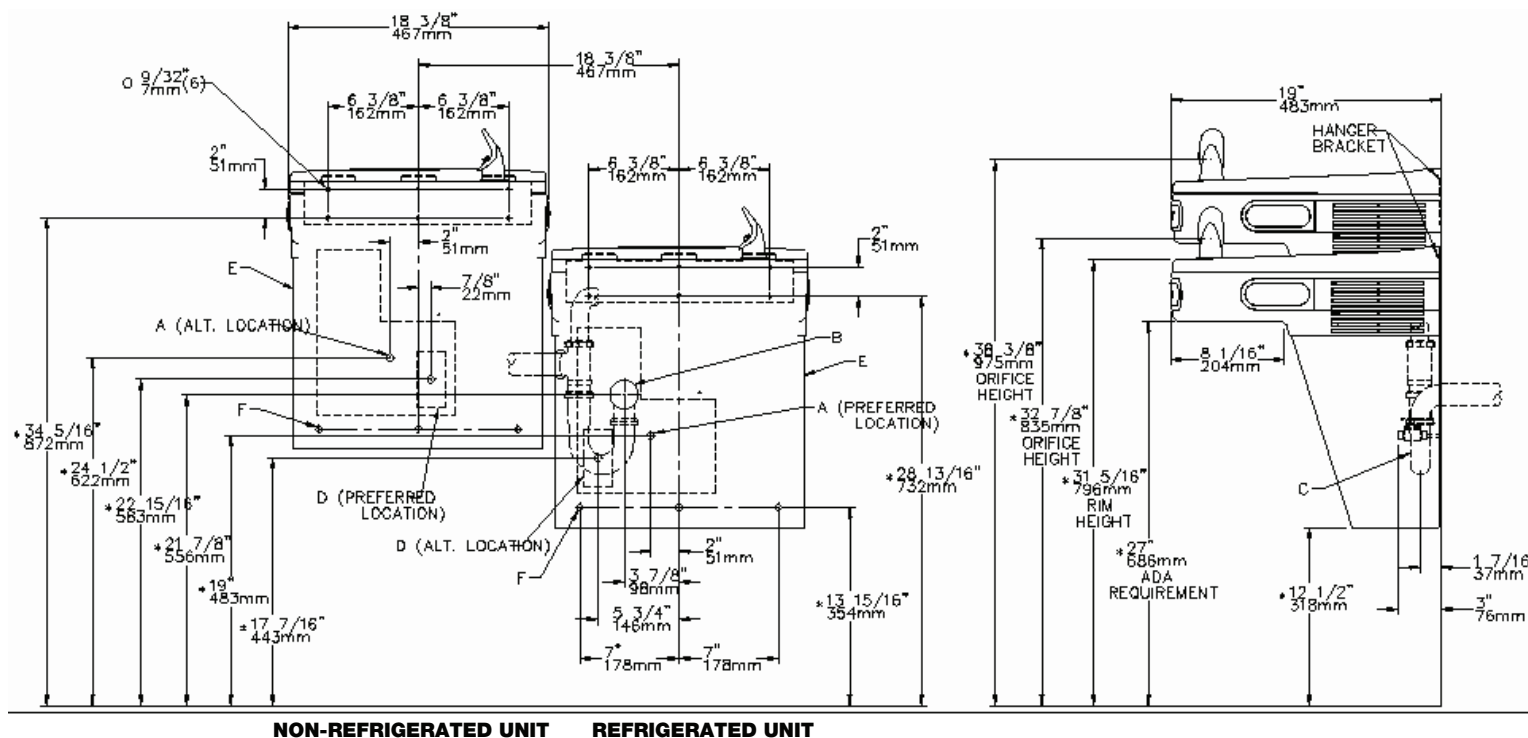
NOTICE

This water cooler must be connected to the water supply using a dielectric coupling. The cooler is furnished with a non-metallic strainer which meets this requirement.

The drain trap which is provided by the installer should also be plastic to completely isolate the cooler from the building plumbing system.

OPERATION OF QUICK CONNECT FITTINGS

PUSHING TUBE IN BEFORE
PULLING IT OUT HELPS TO
RELEASE TUBE

RATED FOR INDOOR APPLICATIONS ONLY**FRONT VIEW****SIDE VIEW****LEGEND**

- A = RECOMMENDED WATER SUPPLY LOCATION. SHUT-OFF VALVE (NOT FURNISHED) TO ACCEPT 3/8 O.D. UNPLATED COPPER TUBE. 3" (76mm) MAXIMUM OUT FROM WALL
- B = RECOMMENDED LOCATION FOR WASTE OUTLET TO ACCOMMODATE 1-1/2" NOMINAL DRAIN. DRAIN STUB 2 IN. OUT FROM WALL
- C = 1-1/2" TRAP NOT FURNISHED
- D = ELECTRICAL SUPPLY (3) WIRE RECESSED BOX DUPLEX OUTLET
- F = 7/16" BOLT HOLES FOR FASTENING UNIT TO WALL

INSURE PROPER VENTILATION BY MAINTAINING 6" (152mm) MINIMUM CLEARANCE FROM CABINET LOUVERS TO WALL.





**Dearborn®
Brass**

4675 W. 160th St.
Cleveland, Ohio 44135
Ph: (800) 321-9532
Fax: (800) 321-9535
www.dearbornbrass.com

SUBMITTAL SPECIFICATION

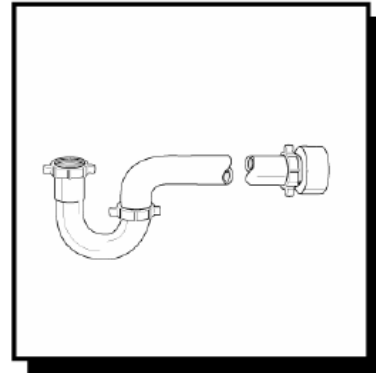
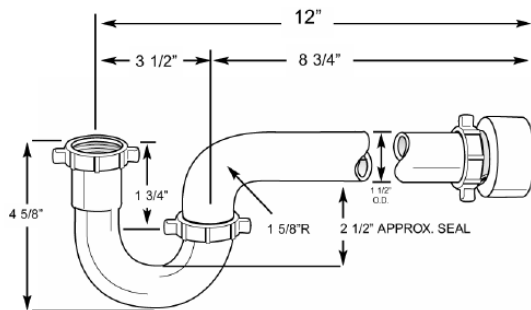
**PLASTIC TUBULAR
1-½" P-TRAP WITH THREADED ADAPTER**

Engineering Specification: Dearborn Brass Plastic Tubular 1-½" P-Traps with Threaded Adapter are designed for use in tubular drain applications. Options include PVC or ABS plastic adapter and True Blue Premium Washers for superior sealing. Available in white or black polypropylene plastic.

Job Reference

DESCRIPTION

- Made of polypropylene plastic
- Plastic Tubular P-Trap with Threaded Adapter
 - Plastic Tubular Quarter Bend
 - Plastic Tubular J-Bend
 - Schedule 40 Threaded Adapter
 - (3) Slip Joint Nuts
 - (1) 1-½" Washer
 - (1) 1-¼" x 1-½" Reducing Washer
- Reversible P-Trap includes reversible J-Bend
- Deep Flange P-Trap includes plastic deep flange



- Meets ASTM F 409
- IAPMO Listed



✓	Product No.	Description	Carton Quantity	Carton Weight (lbs)
	P9703W	1-½" P-Trap w/ Threaded PVC Adapter with True Blue Premium Washers – White		
	P9703BG	1-½" P-Trap w/ Threaded PVC Adapter & Reversible J-Bend – White, Bagged	25	19.4
	A9703WBG	1-½" P-Trap w/ Threaded PVC Adapter & Reversible J-Bend with True Blue Premium Washers –Black, Bagged	25	19.4
	P9704	1-½" P-Trap w/ Threaded PVC Adapter – White	25	11.8
	A9704	1-½" P-Trap w/ Threaded ABS Adapter – Black	25	11.7
	P9704A	1-½" P-Trap w/ Threaded ABS Adapter – White	25	11.8
	P9704AB	1-½" P-Trap w/ Threaded ABS Adapter – White, Bagged	25	19.2
	P9704BG	1-½" P-Trap w/ Threaded PVC Adapter – White, Bagged	25	19.4
	P9704AWB	1-½" P-Trap w/ Threaded ABS Adapter & Reversible J-Bend with True Blue Premium Washers – White, Bagged	25	19.4
	A9704B	1-½" P-Trap w/ Threaded ABS Adapter – Black, Bagged	25	19.3
	P9704DF	1-½" P-Trap w/ Threaded PVC Adapter & Deep Flange– White	25	12.8
	A9704DF	1-½" P-Trap w/ Threaded ABS Adapter & Deep Flange – Black	25	12.6
	P9704DFB	1-½" P-Trap w/ Threaded PVC Adapter & Deep Flange – White, Bagged	25	21.2
	A9704WB	1-½" P-Trap w/ Threaded ABS Adapter & Reversible J-Bend with True Blue Premium Washers – Black, Bagged	25	19.4



For Residential and Commercial Applications


Job Name		Engineer / Architect	
Job Location		Wholesaler	
Submittal Date		Contractor	

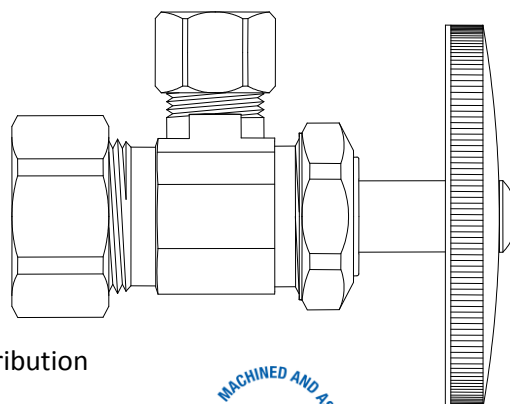
OCR1B/ OCR3B & OCR09/ OCR19/ OCR39/ OCR49

Multi-Turn Angle Stop – Compression x Compression

Use: For use in potable water distribution systems. Not intended for recirculating water systems that produce continuous use temperatures above 115° F. For those applications, use our KT™ series ball stops.

Design Features:

- **Machined one-piece brass body** provides strength, durability, and long-lasting performance
- **Oval knurled handle** provides a secure grip and smooth on/off operation
- **Easy-to-remove handle** with screw attachment helps protect against accidental stop operation during rough-ins
-  **No Lead**
- **For use with** ASTM F876 PEX tubing, in ASTM F877 water distribution systems (parts containing PX and PXX only)
- **For use in** ASTM F877 water distribution systems as noted in Appendixes (parts containing PX and PXX only)



Operating Specifications:

Temperature: 40° - 140° F

Pressure: 125 PSI maximum

Standard

STOP MATERIAL SPECIFICATIONS	
Body	Brass or brass, chrome plated
Stem	POM; brass; or brass, chrome plated
Bib & Packing Washer	Rubber
Packing Nut	Brass or brass, chrome plated
Handle	Zinc die cast, plated; ABS, plated; or Polycarbonate
Handle Screw	Zinc-plated steel
Compression Nut	Brass or brass, chrome plated
Compression Sleeve	Brass
PEX Insert*	Stainless steel

No Lead

STOP MATERIAL SPECIFICATIONS	
Body	No-Lead brass or No-Lead brass, chrome plated
Stem	POM; No-Lead brass; or No-Lead brass, chrome plated
Bib & Packing Washer	Rubber
Packing Nut	Brass or brass, chrome plated
Handle	Zinc die cast, plated; ABS, plated; or Polycarbonate
Handle Screw	Zinc-plated steel
Compression Nut	Brass or brass, chrome plated
Compression Sleeve	Brass
PEX Insert*	Stainless steel

*Where specified

This specification and all information contained herein is the confidential and exclusive property of BrassCraft Manufacturing, and shall not be disclosed to others without the written consent of BrassCraft Mfg. This specification must be returned to BrassCraft Mfg. if requested.

400.28 OCR09/19/39 Multi-Turn Angle Stop - Compr x Compr REV 08/13

BrassCraft®

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Product Submittal Form 188033

OCR1B/ OCR3B & OCR09/ OCR19/ OCR39/ OCR49

Multi-Turn Angle Stop – Compression x Compression

Standard Part Listing (con't):

<input type="checkbox"/>	OCR39 R1	1/2" nom compression x 1/2" OD compression, rough brass, window box
<input type="checkbox"/>	OCR39Z C	1/2" nom compression x 1/2" OD compression, brass stem, chrome plated
<input type="checkbox"/>	OCR49 C	1/2" nom compression x 5/8" OD compression, chrome plated
<input type="checkbox"/>	OCR49 R	1/2" nom compression x 5/8" OD compression, rough brass
<input type="checkbox"/>	OCR49Z C	1/2" nom compression x 5/8" OD compression, brass stem, chrome plated

No-Lead Part Listing:

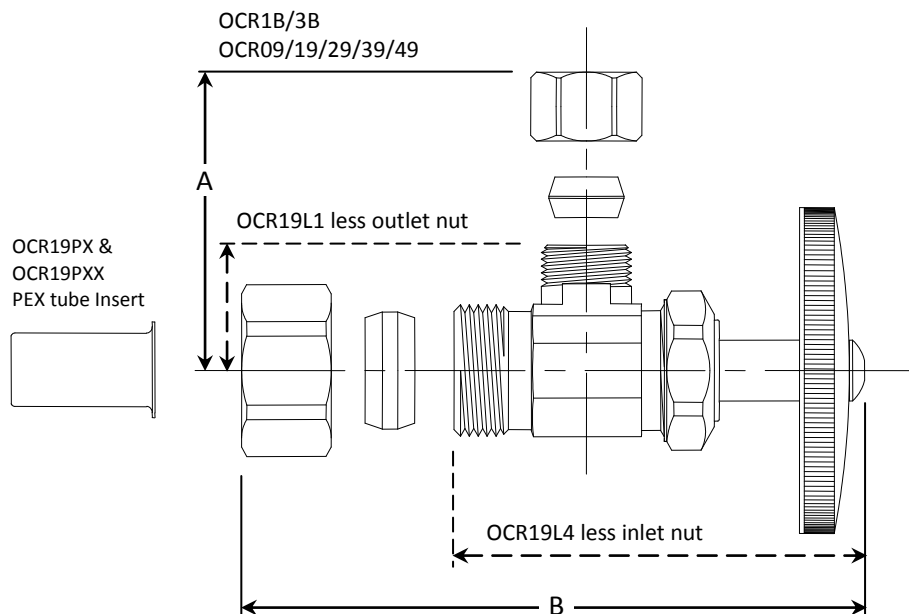
<input type="checkbox"/>	OCR09X C	1/2" nom compression x 1/4" OD compression, chrome plated
<input type="checkbox"/>	OCR09X C1	1/2" nom compression x 1/4" OD compression, chrome plated, window box
<input type="checkbox"/>	OCR1BX C	3/8" nom compression x 3/8" OD compression, chrome plated
<input type="checkbox"/>	OCR1BX C1	3/8" nom compression x 3/8" OD compression, chrome plated, window box
<input type="checkbox"/>	OCR3BX C	3/8" nom compression x 1/2" OD compression, chrome plated
<input type="checkbox"/>	OCR09X C	1/2" nom compression x 1/4" OD compression, chrome plated
<input type="checkbox"/>	OCR09X C1	1/2" nom compression x 1/4" OD compression, chrome plated, window box
<input type="checkbox"/>	OCR09X CBT	1/2" nom compression x 1/4" OD compression, chrome plated, bulk
<input type="checkbox"/>	OCR09X R	1/2" nom compression x 1/4" OD compression, rough brass
<input type="checkbox"/>	OCR09ZX C	1/2" nom compression x 1/4" OD compression, brass stem, chrome plated
<input type="checkbox"/>	OCR19X C	1/2" nom compression x 3/8" OD compression, chrome plated
<input type="checkbox"/>	OCR19X C1	1/2" nom compression x 3/8" OD compression, chrome plated, window box
<input type="checkbox"/>	OCR19X R	1/2" nom compression x 3/8" OD compression, rough brass
<input type="checkbox"/>	OCR19X R1	1/2" nom compression x 3/8" OD compression, rough brass, window box
<input type="checkbox"/>	OCR19X BZ	1/2" nom compression x 3/8" OD compression, oil rubbed bronze
<input type="checkbox"/>	OCR19X NP	1/2" nom compression x 3/8" OD compression, polished nickel
<input type="checkbox"/>	OCR19X NS	1/2" nom compression x 3/8" OD compression, satin nickel
<input type="checkbox"/>	OCR19X P	1/2" nom compression x 3/8" OD compression, polished brass
<input type="checkbox"/>	OCR19KL1X CB	1/2" nom compression x 3/8" OD compression, less outlet nut, plastic handle, chrome plated, bulk
<input type="checkbox"/>	OCR19L1X CB	1/2" nom compression x 3/8" OD compression, less outlet nut, chrome plated, bulk
<input type="checkbox"/>	OCR19L1X RB	1/2" nom compression x 3/8" OD compression, less outlet nut, rough brass, bulk
<input type="checkbox"/>	OCR19L4X C100T	1/2" nom compression x 3/8" OD compression, less inlet nut, chrome plated, 100 per case
<input type="checkbox"/>	OCR19PXX C	1/2" nom compression x 3/8" OD compression, PEX stainless steel insert, chrome plated
<input type="checkbox"/>	OCR19PXX R	1/2" nom compression x 3/8" OD compression, PEX stainless steel insert, rough brass
<input type="checkbox"/>	OCR19ZX C	1/2" nom compression x 3/8" OD compression, brass stem, chrome plated
<input type="checkbox"/>	OCR19ZX R	1/2" nom compression x 3/8" OD compression, brass stem, rough brass
<input type="checkbox"/>	OCR29X C	1/2" nom compression x 7/16" OD compression, chrome plated
<input type="checkbox"/>	OCR29X C1	1/2" nom compression x 7/16" OD compression, chrome plated, window box
<input type="checkbox"/>	OCR29X R	1/2" nom compression x 7/16" OD compression, rough brass
<input type="checkbox"/>	OCR39X C	1/2" nom compression x 1/2" OD compression, chrome plated
<input type="checkbox"/>	OCR39X CBT	1/2" nom compression x 1/2" OD compression, chrome plated, bulk
<input type="checkbox"/>	OCR39X C1	1/2" nom compression x 1/2" OD compression, chrome plated, window box
<input type="checkbox"/>	OCR39X R	1/2" nom compression x 1/2" OD compression, rough brass
<input type="checkbox"/>	OCR49X C	1/2" nom compression x 5/8" OD compression, chrome plated

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OCR1B/ OCR3B & OCR09/ OCR19/ OCR39/ OCR49

Multi-Turn Angle Stop – Compression x Compression



PART DIMENSIONS (Inches)		
Model	DIM A	DIM B
OCR1B	1.02	2.75
OCR3B	1.11	2.75
OCR09	1.02	2.75
OCR19	1.02	2.75
OCR19K	1.02	2.75
OCR19L1	0.74	2.75
OCR19L4	1.02	2.41
OCR19P	1.02	2.41
OCR19PX	1.02	2.41
OCR29	1.18	2.85
OCR39	1.11	2.85
OCR49	1.18	2.97

Listings & Certifications:

- IAPMO listed to ASME A112.18.1 / CSA B125.1 (File # 0645)
- CSA listed to ASME A112.18.1 / CSA B125.1 (File # 204593)
- No-Lead product CSA listed to Low Lead Content Certification Program – Plumbing Products Class 6853-01



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400.28 OCR09/19/39 Multi-Turn Angle Stop - Compr x Compr REV 08/13

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Product Submittal Form
188033



4700 W. 160th St.
Cleveland, OH 44135
1-800-321-9532
1-800-321-9535
www.oatey.com

TECHNICAL SPECIFICATION

PEX WATER SUPPLY TUBES



TECHNICAL SPECIFICATION: Oatey's Pex Water Supply Tubes are used in residential and commercial plumbing applications. Used for dishwasher supply, sink supply, and toilet Risers.



#34310 shown

- Meets performance requirements of ASME A122.18.6 ASTM F876 and ASTM F877
- Fast and easy to install
- One-piece ready to use

PRODUCT NUMBER	DESCRIPTION	CTN. QTY.
34351	PEX Dishwasher Supply 3/8" x 3/8" x 5'	6
34300	PEX Riser Supply 3/8" Comp x 1/2" IPS Threads x 12"	12
34301	PEX Riser Supply 3/8" Comp x 1/2" IPS Threads x 20"	12
34302	PEX Riser Supply 3/8" Comp x 1/2" IPS Threads x 36"	12
34305	PEX Riser Supply 3/8" Comp x 7/8" Ballcock x 12"	12
34306	PEX Riser Supply 3/8" Comp x 7/8" Ballcock x 20"	12
34310	PEX Sink Supply 12"	48
34311	PEX Sink Supply 15"	48
34312	PEX Sink Supply 20"	48
34313	PEX Sink Supply 30"	48
34322	PEX Sink Supply 30" With Flag	48
34314	PEX Sink Supply 36"	48
34315	PEX Sink Supply 12"	48
34316	PEX Toilet Riser 15"	48
34317	PEX Toilet Riser 20"	48
34015	PEX Water Supply Kit with 1/4" Valve	6
34018	PEX Celxon Compression Sleeve	48

*Corzan is a registered trademark of The Lubrizol Corporation.



EWC-2



ELKAY®

SPECIFICATIONS

Two Station Wall Mount Water Cooler
Vandal-Resistant, Barrier-Free Access
Model VRCTL8SC

GENERAL

Self-contained, double wall hung electric refrigerated, water cooler. Vandal-resistant unit for use in high demand locations where vandalism may occur. Rated for indoor or outdoor use.

Stainless steel construction provides vandal-resistant enclosure. Optional perforated stainless steel louver screening prevents objects from being inserted into cooler. Flow regulator provides constant stream from 20 to 105 psi water pressure. Heavy duty push button control is vandal-resistant.

ADA COMPLIANT

These Water Coolers comply with the requirements of A.D.A. (Americans with Disabilities Act) when properly installed. Also meets the guidelines for children's environments providing the floor to orifice height is 30" or less and proper clear floor space is provided for parallel approach. (Based on Architectural and Transportation Barriers Compliance Board final ruling.) Check Local and State Codes.

NO LEAD DESIGN

These Water Coolers are certified to be lead-free as defined by the Safe Drinking Water Act. Elkay Water Coolers are manufactured with a waterway system utilizing copper components and completely lead-free materials. These waterways have no lead because all lead materials, such as leaded brass, have been removed. All joints are brazed using silver solder only. No lead solder is permitted. A strainer with an easily cleanable screen is provided to allow trapping and convenient removal of waterborne particulate of 140 microns and larger prior to their entry into the water cooler.

CAPACITIES CHART

Model Number	Volt/ Hertz	Base Rate	**GPH of 50°F Drinking Water			Rated Watts	Full Load Amps	Glass Filler Option	Filter Option	Louver Screens	Ship. Wt. Lbs. (Kg.)
			70°F (21°C)	80°F (27°C)	90°F (32°C)						
VRCTL8SC	120V/ 60Hz	7.8	9.4	8.6	7.8	575	5	No	Yes	Yes	94
VRCTL8S2JOC	220-240V/ 50Hz	6.5	7.9	7.2	6.5	575	2.5	No	Yes	Yes	94
VRCTL8S3JOC	220-240V/ 60Hz	7.5	9.4	8.6	7.8	575	2.5	No	Yes	Yes	94
VRCTLDSC	—	—	—	—	—	—	—	No	Yes	Yes	56

**Based on 80°F (27°C) inlet water temperature.

Rated watts shown are based on operational (run) time, in accordance with A.R.I. Standard 1010 conditions. Specific applications will determine the actual watts consumed per hour. Watts consumed will be based on number of people served per hour (usage), ambient temperatures, and inlet water temperature.

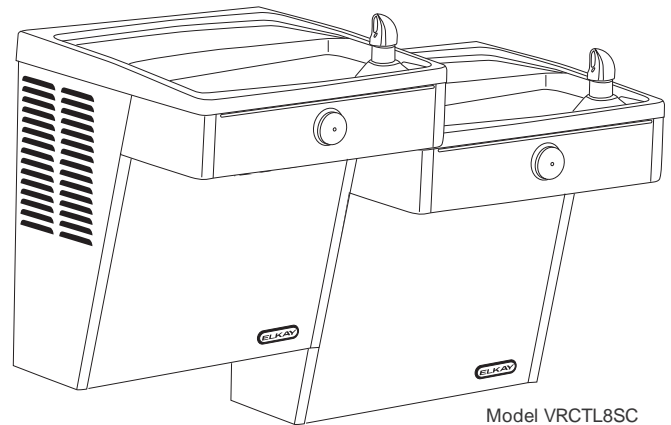
COOLING SYSTEM

Motor Compressor: Hermetically sealed, reciprocating type, 120 Volt/60 Hz, single phase or 220-240 Volt/50 Hz or 60 Hz, two phase. Sealed-in lifetime oil supply. Equipped with electric cord and three prong molded rubber plug.

Condenser: Fan cooled, copper tube with aluminum fins. Fan motor is permanently lubricated.

Cooling Unit: Combination tube-tank type. Tube portion is continuous coil of copper tubing. Fully insulated with EPS foam which meets Underwriters Laboratories Inc. requirements for self extinguishing material.

Refrigeration Control: Refrigerant HFC-134a is controlled by accurately calibrated capillary tube for positively trouble-free operation.



Model VRCTL8SC

Temperature Control: Enclosed adjustable thermostat is factory preset. Requires no adjustment other than for altitude requirements. Easily accessible.

CONSTRUCTION

Frame: alvanized structural steel chassis supports fountain top and cabinet panels.

Cololer Top: Series 300 one piece stainless steel top, polished to a uniform Elkay bright luster finish. Basin has embossed bubbler pad.

Vandal-resistant bubbler: Heavy duty, one piece construction. Keyed into position to prevent rotation. Meets UL requirements and all sanitary codes.

Cabinet: Cabinet design allows for flush to wall mounting. No recess space is required. Includes bottom cover plate fastened with vandal-resistant screws.

Color Selection: Stainless steel furnished as standard.

ALSO AVAILABLE

Model VRCTLF8SC Same as model above, which includes frost resistant heating element. Tested to 32°F (0°C) with no wind. Specify for areas where the temperature will occasionally drop to freezing for a short period of time. (Glass filler not available). Model VRCTLF8DDSC also available.

Model VRCTLSC8SC Same as VRCTL8S with perforated stainless steel louvers screening prevents objects from being inserted into coolers. VRCTLSCDDSC also available.

Protected by Elkay's 5 Year Limited Warranty on the refrigeration system of the unit.

Elkay Pressure-Type Water Coolers are designed to operate on 20 psi (138 KPa) to 105 psi (724 KPa) supply line pressure. If inlet pressure is above 105 psi (724 KPa), a pressure regulator must be installed in the supply line. Any damage caused by reason of connecting this product to supply line pressures lower than 20 psi (138 KPa) or higher than 105 psi (724 KPa) is not covered by the warranty.

STANDARDS

 Elkay Electric Air Cooled Water Coolers are listed by Underwriters Laboratories Inc. and comply with both Canadian and U.S. requirements.

These units comply with A.R.I. Standard 1010.

This cooler is certified by WQA to lead-free compliance including NSF/ANSI 61 and 372.

In keeping with our policy of continuing product improvement, Elkay reserves the right to change product specifications without notice. Please visit elkayusa.com for most current version.

This specification describes an Elkay product with design, quality and functional benefits to the user. When making a comparison of other producers' offerings, be certain these features are not overlooked.

Elkay

elkayusa.com

2222 Camden Court
Oak Brook, IL 60523

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(Rev. 1/13)

Two Station Wall Mount Water Cooler Vandal-Resistant, Barrier-Free Access Model VRCTL8SC

ELKAY® ROUGH-IN DIMENSIONS

INSTALLER PLEASE NOTE:

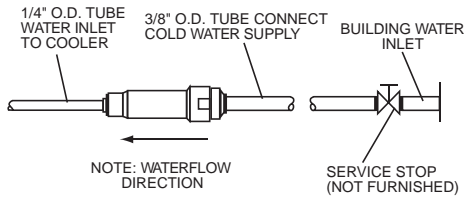
IMPORTANT

THIS WATER COOLER HAS BEEN DESIGNED AND BUILT TO PROVIDE WATER TO THE USER WHICH HAS NOT BEEN ALTERED BY MATERIALS IN THE COOLER WATERWAYS. THE GROUNDING OF ELECTRICAL EQUIPMENT SUCH AS TELEPHONE, COMPUTERS, ETC. TO WATER LINES IS A COMMON PROCEDURE. THIS GROUNDING MAY BE IN THE BUILDING BUT MAY ALSO OCCUR AWAY FROM THE BUILDING. THIS GROUNDING CAN CAUSE ELECTRICAL FEEDBACK INTO A WATER COOLER CREATING AN ELECTROLYSIS WHICH CREATES A METALLIC TASTE OR CAUSES AN INCREASE IN THE METAL CONTENT OF THE WATER. THIS CONDITION IS AVOIDABLE BY INSTALLING THE COOLER USING THE PROPER MATERIALS AS SHOWN BELOW.

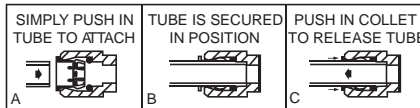
NOTICE

THIS WATER COOLER MUST BE CONNECTED TO THE WATER SUPPLY USING A DIELECTRIC COUPLING. THE COOLER IS FURNISHED WITH A NON-METALLIC STRAINER WHICH MEETS THIS REQUIREMENT. THE DRAIN TRAP WHICH IS PROVIDED BY THE INSTALLER SHOULD ALSO BE PLASTIC TO COMPLETELY ISOLATE THE COOLER FROM THE BUILDING PLUMBING SYSTEM.

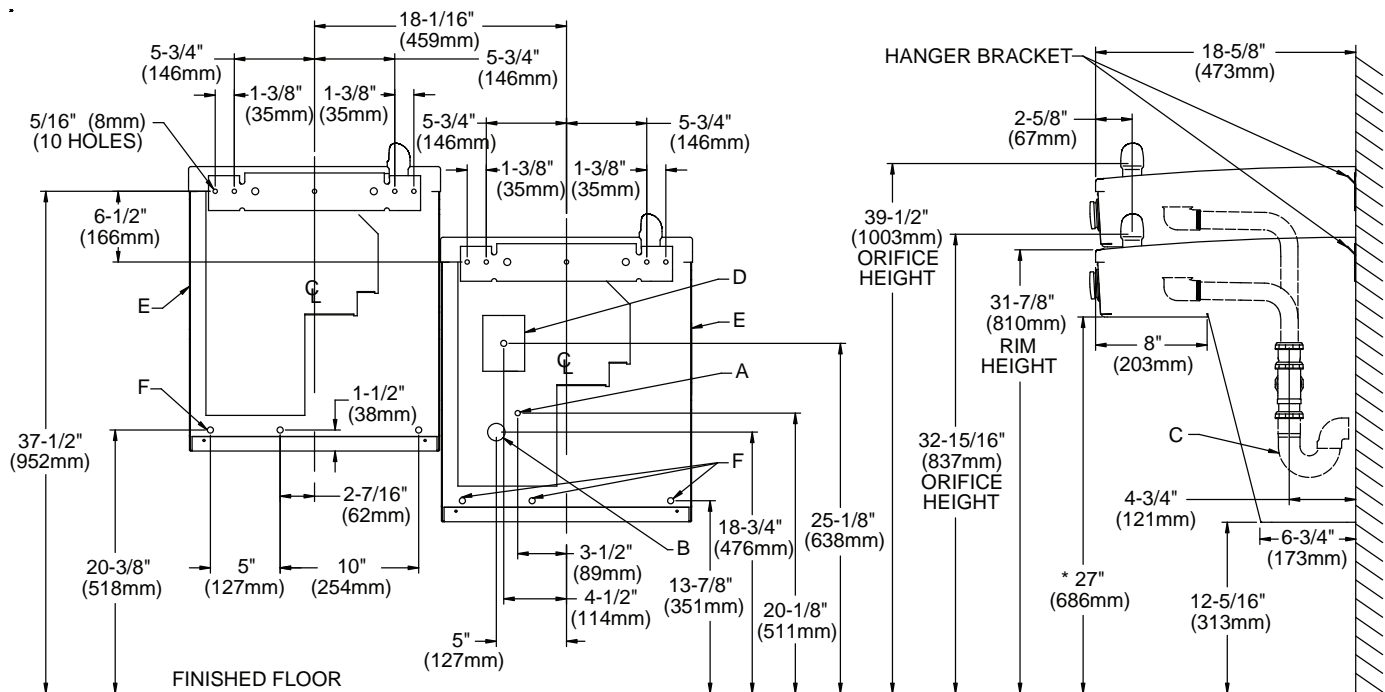
MINIMUM 40 PSI SUPPLY LINE PRESSURE REQUIRED IN SPECIAL CIRCUMSTANCES WHEN BOTH SIDES OF BILEVEL ARE IN USE SIMULTANEOUSLY TO ENSURE ADEQUATE STREAM HEIGHT. DOES NOT APPLY TO NON-REFRIGERATED UNITS.



OPERATION OF QUICK CONNECT FITTINGS



PUSHING TUBE IN BEFORE PULLING IT OUT HELPS TO RELEASE TUBE



REDUCE HEIGHT BY 3" FOR INSTALLATION OF CHILDRENS ADA COOLER

LEGEND

- A = RECOMMENDED WATER SUPPLY LOCATION. SHUT OFF VALVE (NOT FURNISHED) TO ACCEPT 3/8" O.D. UNPLATED COPPER TUBE. 3" (76mm) MAXIMUM OUT FROM WALL.
- B = RECOMMENDED LOCATION FOR WASTE OUTLET 1-1/2" O.D. DRAIN.
- C = 1-1/2" TRAP NOT FURNISHED
- D = ELECTRICAL SUPPLY (3) WIRE RECESSED BOX.
- E = INSURE PROPER VENTILATION BY MAINTAINING 6" (152mm) (MIN.) CLEARANCE FROM CABINET LOUVERS TO WALL.
- F = 7/16" BOLT HOLES FOR FASTENING UNIT TO WALL.

*ADA REQUIREMENT



**Dearborn®
Brass**

4675 W. 160th St.
Cleveland, Ohio 44135
Ph: (800) 321-9532
Fax: (800) 321-9535
www.dearbornbrass.com

SUBMITTAL SPECIFICATION

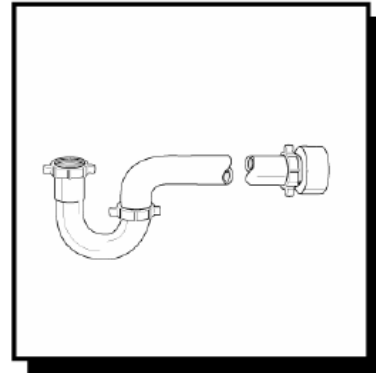
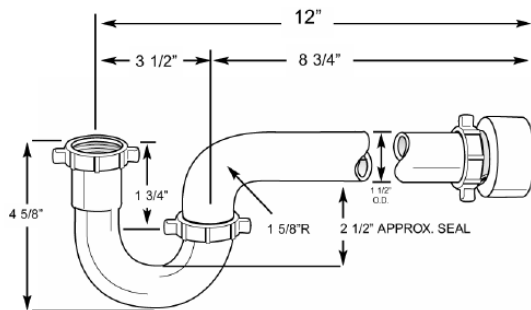
**PLASTIC TUBULAR
1-½" P-TRAP WITH THREADED ADAPTER**

Engineering Specification: Dearborn Brass Plastic Tubular 1-½" P-Traps with Threaded Adapter are designed for use in tubular drain applications. Options include PVC or ABS plastic adapter and True Blue Premium Washers for superior sealing. Available in white or black polypropylene plastic.

Job Reference

DESCRIPTION

- Made of polypropylene plastic
- Plastic Tubular P-Trap with Threaded Adapter
 - Plastic Tubular Quarter Bend
 - Plastic Tubular J-Bend
 - Schedule 40 Threaded Adapter
 - (3) Slip Joint Nuts
 - (1) 1-½" Washer
 - (1) 1-¼" x 1-½" Reducing Washer
- Reversible P-Trap includes reversible J-Bend
- Deep Flange P-Trap includes plastic deep flange



- Meets ASTM F 409
- IAPMO Listed



✓	Product No.	Description	Carton Quantity	Carton Weight (lbs)
	P9703W	1-½" P-Trap w/ Threaded PVC Adapter with True Blue Premium Washers – White		
	P9703BG	1-½" P-Trap w/ Threaded PVC Adapter & Reversible J-Bend – White, Bagged	25	19.4
	A9703WBG	1-½" P-Trap w/ Threaded PVC Adapter & Reversible J-Bend with True Blue Premium Washers –Black, Bagged	25	19.4
	P9704	1-½" P-Trap w/ Threaded PVC Adapter – White	25	11.8
	A9704	1-½" P-Trap w/ Threaded ABS Adapter – Black	25	11.7
	P9704A	1-½" P-Trap w/ Threaded ABS Adapter – White	25	11.8
	P9704AB	1-½" P-Trap w/ Threaded ABS Adapter – White, Bagged	25	19.2
	P9704BG	1-½" P-Trap w/ Threaded PVC Adapter – White, Bagged	25	19.4
	P9704AWB	1-½" P-Trap w/ Threaded ABS Adapter & Reversible J-Bend with True Blue Premium Washers – White, Bagged	25	19.4
	A9704B	1-½" P-Trap w/ Threaded ABS Adapter – Black, Bagged	25	19.3
	P9704DF	1-½" P-Trap w/ Threaded PVC Adapter & Deep Flange– White	25	12.8
	A9704DF	1-½" P-Trap w/ Threaded ABS Adapter & Deep Flange – Black	25	12.6
	P9704DFB	1-½" P-Trap w/ Threaded PVC Adapter & Deep Flange – White, Bagged	25	21.2
	A9704WB	1-½" P-Trap w/ Threaded ABS Adapter & Reversible J-Bend with True Blue Premium Washers – Black, Bagged	25	19.4




For Residential and Commercial Applications

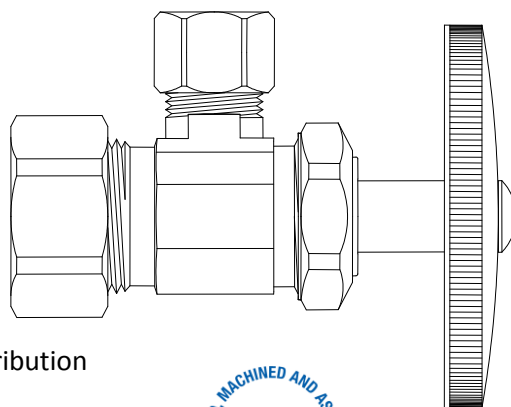
Job Name		Engineer / Architect	
Job Location		Wholesaler	
Submittal Date		Contractor	

OCR1B/ OCR3B & OCR09/ OCR19/ OCR39/ OCR49 Multi-Turn Angle Stop – Compression x Compression

Use: For use in potable water distribution systems. Not intended for recirculating water systems that produce continuous use temperatures above 115° F. For those applications, use our KT™ series ball stops.

Design Features:

- **Machined one-piece brass body** provides strength, durability, and long-lasting performance
- **Oval knurled handle** provides a secure grip and smooth on/off operation
- **Easy-to-remove handle** with screw attachment helps protect against accidental stop operation during rough-ins
-  **No Lead**
- **For use with** ASTM F876 PEX tubing, in ASTM F877 water distribution systems (parts containing PX and PXX only)
- **For use in** ASTM F877 water distribution systems as noted in Appendixes (parts containing PX and PXX only)



Operating Specifications:

Temperature: 40° - 140° F

Pressure: 125 PSI maximum

Standard

STOP MATERIAL SPECIFICATIONS	
Body	Brass or brass, chrome plated
Stem	POM; brass; or brass, chrome plated
Bib & Packing Washer	Rubber
Packing Nut	Brass or brass, chrome plated
Handle	Zinc die cast, plated; ABS, plated; or Polycarbonate
Handle Screw	Zinc-plated steel
Compression Nut	Brass or brass, chrome plated
Compression Sleeve	Brass
PEX Insert*	Stainless steel

*Where specified

No Lead

STOP MATERIAL SPECIFICATIONS	
Body	No-Lead brass or No-Lead brass, chrome plated
Stem	POM; No-Lead brass; or No-Lead brass, chrome plated
Bib & Packing Washer	Rubber
Packing Nut	Brass or brass, chrome plated
Handle	Zinc die cast, plated; ABS, plated; or Polycarbonate
Handle Screw	Zinc-plated steel
Compression Nut	Brass or brass, chrome plated
Compression Sleeve	Brass
PEX Insert*	Stainless steel

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400.28 OCR09/19/39 Multi-Turn Angle Stop - Compr x Compr REV 08/13

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Product Submittal Form 188033

OCR1B/ OCR3B & OCR09/ OCR19/ OCR39/ OCR49

Multi-Turn Angle Stop – Compression x Compression

Standard Part Listing (con't):

<input type="checkbox"/>	OCR39 R1	1/2" nom compression x 1/2" OD compression, rough brass, window box
<input type="checkbox"/>	OCR39Z C	1/2" nom compression x 1/2" OD compression, brass stem, chrome plated
<input type="checkbox"/>	OCR49 C	1/2" nom compression x 5/8" OD compression, chrome plated
<input type="checkbox"/>	OCR49 R	1/2" nom compression x 5/8" OD compression, rough brass
<input type="checkbox"/>	OCR49Z C	1/2" nom compression x 5/8" OD compression, brass stem, chrome plated

No-Lead Part Listing:

<input type="checkbox"/>	OCR09X C	1/2" nom compression x 1/4" OD compression, chrome plated
<input type="checkbox"/>	OCR09X C1	1/2" nom compression x 1/4" OD compression, chrome plated, window box
<input type="checkbox"/>	OCR1BX C	3/8" nom compression x 3/8" OD compression, chrome plated
<input type="checkbox"/>	OCR1BX C1	3/8" nom compression x 3/8" OD compression, chrome plated, window box
<input type="checkbox"/>	OCR3BX C	3/8" nom compression x 1/2" OD compression, chrome plated
<input type="checkbox"/>	OCR09X C	1/2" nom compression x 1/4" OD compression, chrome plated
<input type="checkbox"/>	OCR09X C1	1/2" nom compression x 1/4" OD compression, chrome plated, window box
<input type="checkbox"/>	OCR09X CBT	1/2" nom compression x 1/4" OD compression, chrome plated, bulk
<input type="checkbox"/>	OCR09X R	1/2" nom compression x 1/4" OD compression, rough brass
<input type="checkbox"/>	OCR09ZX C	1/2" nom compression x 1/4" OD compression, brass stem, chrome plated
<input type="checkbox"/>	OCR19X C	1/2" nom compression x 3/8" OD compression, chrome plated
<input type="checkbox"/>	OCR19X C1	1/2" nom compression x 3/8" OD compression, chrome plated, window box
<input type="checkbox"/>	OCR19X R	1/2" nom compression x 3/8" OD compression, rough brass
<input type="checkbox"/>	OCR19X R1	1/2" nom compression x 3/8" OD compression, rough brass, window box
<input type="checkbox"/>	OCR19X BZ	1/2" nom compression x 3/8" OD compression, oil rubbed bronze
<input type="checkbox"/>	OCR19X NP	1/2" nom compression x 3/8" OD compression, polished nickel
<input type="checkbox"/>	OCR19X NS	1/2" nom compression x 3/8" OD compression, satin nickel
<input type="checkbox"/>	OCR19X P	1/2" nom compression x 3/8" OD compression, polished brass
<input type="checkbox"/>	OCR19KL1X CB	1/2" nom compression x 3/8" OD compression, less outlet nut, plastic handle, chrome plated, bulk
<input type="checkbox"/>	OCR19L1X CB	1/2" nom compression x 3/8" OD compression, less outlet nut, chrome plated, bulk
<input type="checkbox"/>	OCR19L1X RB	1/2" nom compression x 3/8" OD compression, less outlet nut, rough brass, bulk
<input type="checkbox"/>	OCR19L4X C100T	1/2" nom compression x 3/8" OD compression, less inlet nut, chrome plated, 100 per case
<input type="checkbox"/>	OCR19PXX C	1/2" nom compression x 3/8" OD compression, PEX stainless steel insert, chrome plated
<input type="checkbox"/>	OCR19PXX R	1/2" nom compression x 3/8" OD compression, PEX stainless steel insert, rough brass
<input type="checkbox"/>	OCR19ZX C	1/2" nom compression x 3/8" OD compression, brass stem, chrome plated
<input type="checkbox"/>	OCR19ZX R	1/2" nom compression x 3/8" OD compression, brass stem, rough brass
<input type="checkbox"/>	OCR29X C	1/2" nom compression x 7/16" OD compression, chrome plated
<input type="checkbox"/>	OCR29X C1	1/2" nom compression x 7/16" OD compression, chrome plated, window box
<input type="checkbox"/>	OCR29X R	1/2" nom compression x 7/16" OD compression, rough brass
<input type="checkbox"/>	OCR39X C	1/2" nom compression x 1/2" OD compression, chrome plated
<input type="checkbox"/>	OCR39X CBT	1/2" nom compression x 1/2" OD compression, chrome plated, bulk
<input type="checkbox"/>	OCR39X C1	1/2" nom compression x 1/2" OD compression, chrome plated, window box
<input type="checkbox"/>	OCR39X R	1/2" nom compression x 1/2" OD compression, rough brass
<input type="checkbox"/>	OCR49X C	1/2" nom compression x 5/8" OD compression, chrome plated

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400.28 OCR09/19/39 Multi-Turn Angle Stop - Compr x Compr REV 08/13

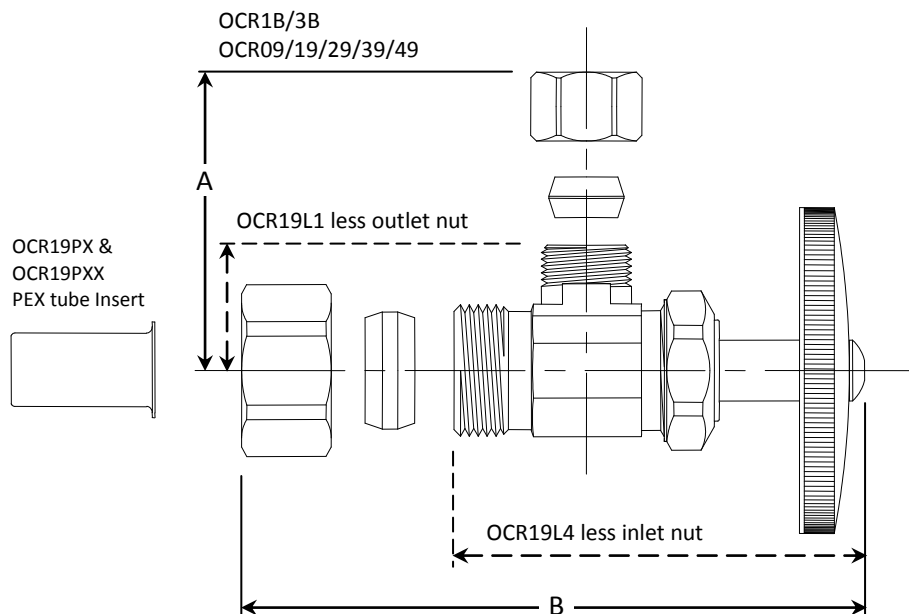
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OCR1B/ OCR3B & OCR09/ OCR19/ OCR39/ OCR49

Multi-Turn Angle Stop – Compression x Compression



PART DIMENSIONS (Inches)		
Model	DIM A	DIM B
OCR1B	1.02	2.75
OCR3B	1.11	2.75
OCR09	1.02	2.75
OCR19	1.02	2.75
OCR19K	1.02	2.75
OCR19L1	0.74	2.75
OCR19L4	1.02	2.41
OCR19P	1.02	2.41
OCR19PX	1.02	2.41
OCR29	1.18	2.85
OCR39	1.11	2.85
OCR49	1.18	2.97

Listings & Certifications:

- IAPMO listed to ASME A112.18.1 / CSA B125.1 (File # 0645)
- CSA listed to ASME A112.18.1 / CSA B125.1 (File # 204593)
- No-Lead product CSA listed to Low Lead Content Certification Program – Plumbing Products Class 6853-01



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400.28 OCR09/19/39 Multi-Turn Angle Stop - Compr x Compr REV 08/13

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Product Submittal Form
188033



4700 W. 160th St.
Cleveland, OH 44135
1-800-321-9532
1-800-321-9535
www.oatey.com

TECHNICAL SPECIFICATION

PEX WATER SUPPLY TUBES



TECHNICAL SPECIFICATION: Oatey's Pex Water Supply Tubes are used in residential and commercial plumbing applications. Used for dishwasher supply, sink supply, and toilet Risers.



#34310 shown

- Meets performance requirements of ASME A122.18.6 ASTM F876 and ASTM F877
- Fast and easy to install
- One-piece ready to use

PRODUCT NUMBER	DESCRIPTION	CTN. QTY.
34351	PEX Dishwasher Supply 3/8" x 3/8" x 5'	6
34300	PEX Riser Supply 3/8" Comp x 1/2" IPS Threads x 12"	12
34301	PEX Riser Supply 3/8" Comp x 1/2" IPS Threads x 20"	12
34302	PEX Riser Supply 3/8" Comp x 1/2" IPS Threads x 36"	12
34305	PEX Riser Supply 3/8" Comp x 7/8" Ballcock x 12"	12
34306	PEX Riser Supply 3/8" Comp x 7/8" Ballcock x 20"	12
34310	PEX Sink Supply 12"	48
34311	PEX Sink Supply 15"	48
34312	PEX Sink Supply 20"	48
34313	PEX Sink Supply 30"	48
34322	PEX Sink Supply 30" With Flag	48
34314	PEX Sink Supply 36"	48
34315	PEX Sink Supply 12"	48
34316	PEX Toilet Riser 15"	48
34317	PEX Toilet Riser 20"	48
34015	PEX Water Supply Kit with 1/4" Valve	6
34018	PEX Celxon Compression Sleeve	48

*Corzan is a registered trademark of The Lubrizol Corporation.



EWH-1



electric mini tank water heater

MINITANK
Series

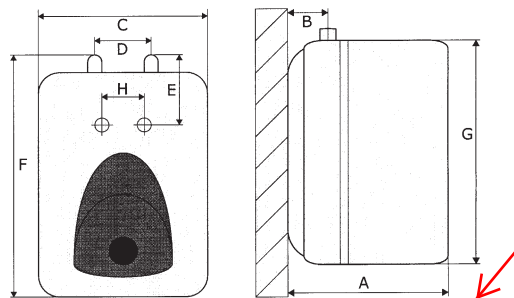
1, 2.5, 4 and 6 Gallon Mini Tanks Deliver Hot Water Efficiently by Heating and Storing at the Point of Use

EEMAX MINI TANK FEATURES

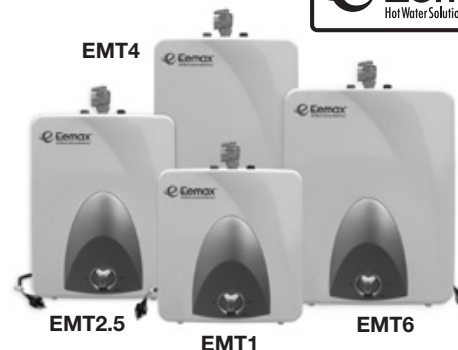
- Point-of-Use Heating Eliminates Long Hot Water Pipe Runs
- Compact Design Fits Virtually Anywhere
- Easy and Ready to Install
- Hot or Cold Water Feed
- Adjustable Temperature Control 50°-140°F
- All units are 110/120 volt plug-in
- Temperature/Pressure Relief Valve Included
- Glass Lined Tank for Extended Life
- Floor and Wall Mountable, Bracket Included
- Power Plug Outlet Capable, No Hardware Needed
- UL Listed
- Voltage: 110/120 volts
- Amperage: 12 amps
- Heating Capacity: 1440 watts
- Phase: single
- Temperatures: 50°-140°F
- Max Operating Pressure: 150 psi

EEMAX MINI TANK INSTALLATION

Save water by eliminating the wait for hot water to reach the faucet. Simply tap into the water line and install the heater directly at the sink. No need for costly recirculating lines and pumps. And when you want to eliminate the wait for hot water but need more volume, install the Eemax heater in-line with a larger hot water source, such as a tankless heater or a storage tank heater. Lightweight and compact, these units plug into a standard 110 volt outlet.



	EMT1	EMT2.5	EMT4	EMT6
A	10.0"	10.375"	10.375"	15.5"
B	2.25"	2.75"	2.75"	4.0"
C	11.0"	11.75"	11.75"	15.75"
D	4.0"	4.0"	4.0"	4.0"
E	6.0"	6.0"	6.0"	6.0"
F	13.5"	15.5"	20.25"	19.0"
G	12.5"	14.5"	19.25"	18.0"
H	2.5"	2.5"	2.5"	2.5"



EMT1 PRODUCT SPECIFICATIONS:

Tank Vol.: 1.3 gallon
 Dimensions: 12.5" H x 11" W x 10" D
 Weight: 12.5 lbs.
 Element: Field replaceable
 Fittings: 1/2" NPT connections at TOP of unit
 Warranty: 5 years limited on leaks, 2 years defects

EMT2.5 PRODUCT SPECIFICATIONS:

Tank Vol.: 2.5 gallons
 Dimensions: 14.5" H x 11.75" W x 10.375" D
 Weight: 20 lbs.
 Element: Field replaceable
 Fittings: 1/2" NPT connections at TOP of unit
 Warranty: 5 years limited on leaks, 2 years defects

EMT4 PRODUCT SPECIFICATIONS:

Tank Vol.: 4 gallons
 Dimensions: 19.25" H x 11.75" W x 10.375" D
 Weight: 24 lbs.
 Element: Field replaceable
 Fittings: 1/2" NPT connections at TOP of unit
 Warranty: 5 years limited on leaks, 2 years defects

EMT6 PRODUCT SPECIFICATIONS:

Tank Vol.: 6 gallons
 Dimensions: 18" H x 15.75" W x 15.5" D
 Weight: 26 lbs.
 Element: Field replaceable
 Fittings: 3/4" NPT connections at TOP of unit
 Warranty: 5 years limited on leaks, 2 years defects



353 Christian Street, Oxford, CT 06478
 (800) 543-6163 info@eemaxinc.com
eemax.com



EWH-2





Commercial Electric Water Heaters

Dura-Power™

Designed for use as a recovery heater having its own storage tank. Available in upright standard models (DEN) and lowboy models (DEL).

GLASSLINED TANK - Thirteen sizes; 6 thru 119 gallon capacity. Tank interior is coated with glass specially designed by A. O. Smith for water heater use.

ELEMENTS - Zinc plated copper sheaths for longer life. Medium watt density means lower surface temperature to minimize scale build-up and more surface to heat water. Element sizes from 1.5 to 6 KW. Maximum input 12 KW (see chart on back).

STANDARD VOLTAGES - 120, 277 single phase and 208, 240 and 480V unbalanced three-phase delta; easily converted to single-phase at terminal block (except 208V with 6000 watt elements). Single element heater, single-phase only.

TERMINAL BLOCK - Factory-installed. Just bring the service to heater and connect to block. Terminal block not supplied on 120V & 277 volt models. (No junction box on DEL6-20)

CONTROLS - Temperature control (adjustable through range of 110° to 170°F on single element and 120° to 180°F on dual element) and manual reset high temperature cutoff per element (dual element models). Factory-wired for non-simultaneous operation; easily converted to simultaneous element operation (three phase models only).

CSA CERTIFIED AND ASME RATED T&P RELIEF VALVE

SIMPLIFIED CIRCUITRY, COLOR CODED FOR EASE OF SERVICE

ANODE ROD FOR MAXIMUM CORROSION PROTECTION

CABINET HAS BONDERIZED UNDERCOAT WITH BAKED ENAMEL FINISH

TOP INLET AND OUTLET OPENINGS

DRAIN VALVE (EXCLUDES DEL 6-20)

UL APPROVED FIELD CONVERSION PROGRAM - The 6 through 20 models are UL listed to UL 174 and the 30 through 120 models are listed to UL 1453.

COMPLIANCE - Meets the standby loss Requirements of the U.S. Department of Energy and current edition of ASHRAE/IESNA 90.1.

LIMITED WARRANTY OUTLINE - If the tank should leak any time during the first three years, under the terms of the warranty, A. O. Smith will furnish a replacement heater; installation, labor, handling and local delivery extra. THIS OUTLINE IS NOT A WARRANTY. For complete information consult the written warranty or A. O. Smith Water Products Company.

ELEMENT AVAILABILITY CHART

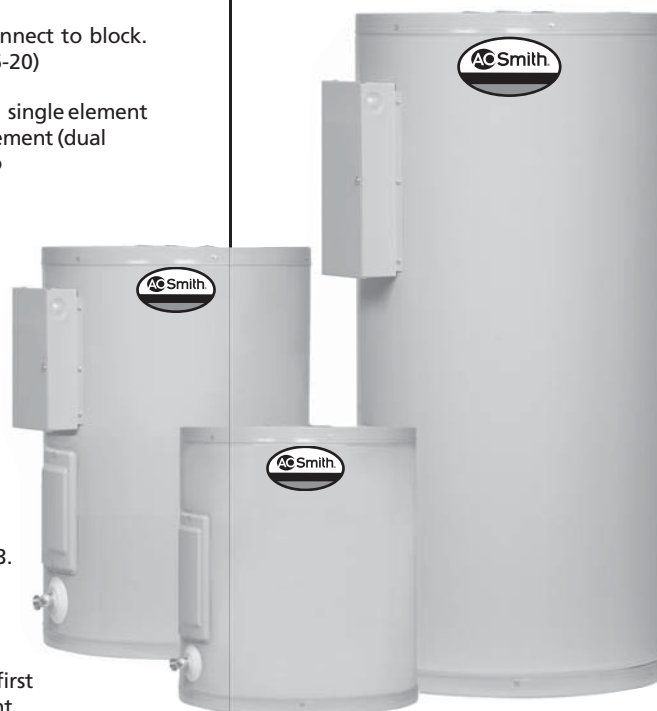
Input	120V	208V	240V	277V	480V
1,500	YES	YES	YES	YES	—
2,000	YES	YES	YES	YES	YES
2,500	YES	YES	YES	YES	YES
3,000	YES	YES	YES	YES	YES
3,500	—	—	YES	—	—
4,000	—	YES	YES	YES	YES
4,500	—	YES	YES	YES	YES
5,000	—	YES*	YES*	YES*	YES*
5,500	—	—	YES*	—	—
6,000	—	YES**	YES	YES	YES

NOTE: DEL-6 not available in above 2.5 KW.
DEL-6 not available in 480V.

* Not available in DEL-10, DEL-15 and DEL-20.
** A6 non-simultaneous circuit only.

133603

DEN/DEL MODELS

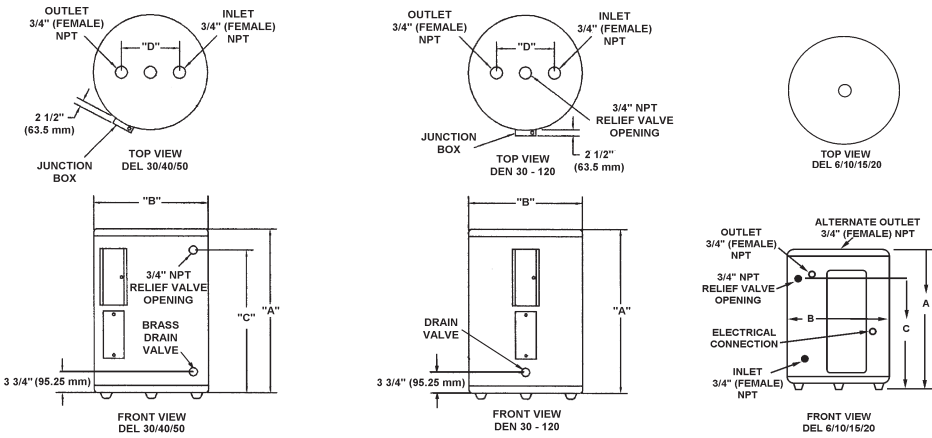




Commercial Electric Water Heaters

Dura-Power™

PRODUCT SPECIFICATIONS



Models Dimensions		No. of Elements	Tank Capacity		A		B		C		D		Shipping Weight	
			US Gals.	Litres	inches	mm	inches	mm	inches	mm	inches	mm	Lbs.	Kg.
DEL-6		1	6	23	15 1/2	394	14 1/4	362	11	279	-	-	35	15.9
DEL-10		1	10	38	18 1/4	464	18	457	12 1/2	318	-	-	54	24.5
DEL-15		1	15	57	26	660	18	457	20 1/2	521	-	-	58	26.3
DEL-20		1	20	76	22 1/4	565	21 3/4	552	15 3/8	391	-	-	73	33.1
DEL-30		2	30	114	30 7/8	784	21 3/4	552	24 1/8	613	8	203	100	45.4
DEL-40		2	40	151	32 1/4	819	24	610	25 9/16	649	8	203	125	56.7
DEL-50		2	50	189	32 1/4	819	26 1/2	673	25 1/8	638	8	203	166	75.3
DEN-30		2	30	114	34 1/2	876	20 1/2	521	-	-	8	203	98	44.5
DEN-40		2	40	151	45 1/8	1146	20 1/2	521	-	-	8	203	113	51.3
DEN-52		2	50	189	54 7/8	1394	20 1/2	521	-	-	8	203	131	59.4
DEN-66		2	66	250	60 3/4	1543	21 3/4	552	-	-	8	203	176	79.8
DEN-80		2	80	303	59 3/8	1508	24	610	-	-	8	203	211	95.7
DEN-120		2	119	450	62 7/16	1586	29 3/8	746	-	-	8	203	326	147.9

RECOVERY CAPACITIES

Element Wattage (Upper/Lower)	INPUT KW	U.S. Gallons/Hr and Litres/Hr at TEMPERATURE RISE INDICATED											
		F° C°	36F° 20C°	40F° 22.2C°	54F° 30C°	60F° 33.3C°	72F° 40C°	80F° 44.4C°	90F° 50C°	100F° 55.5C°	108F° 60C°	120F° 66.6C°	126F° 70C°
NON-SIMULTANEOUS OPERATION													
/1500	1.5	GPH	17	15	11	10	8	8	7	6	6	5	5
		LPH	64	58	43	38	32	29	26	23	21	19	18
/2000	2.0	GPH	23	20	15	14	11	10	9	8	8	7	6
		LPH	85	77	57	51	43	38	34	31	28	26	24
/2500	2.5	GPH	28	25	19	17	14	13	11	10	9	8	8
		LPH	107	96	71	64	53	48	43	38	36	32	30
3000/3000	3.0	GPH	34	30	23	20	17	15	14	12	11	10	10
		LPH	128	115	85	77	64	58	51	46	43	38	37
4000/4000	4.0	GPH	45	41	30	27	23	20	18	16	15	14	13
		LPH	170	153	114	102	85	77	68	61	57	51	49
4500/4500	4.5	GPH	51	46	34	30	25	23	20	18	17	15	14
		LPH	192	173	128	115	96	86	77	69	64	58	55
5000/5000	5.0	GPH	56	51	38	34	28	25	23	20	19	17	16
		LPH	213	192	142	128	107	96	85	77	71	64	61
6000/6000	6.0	GPH	68	61	45	41	34	30	27	24	23	20	19
		LPH	256	230	170	153	128	115	102	92	85	77	73
SIMULTANEOUS OPERATION													
3000/3000	6	GPH	68	61	45	41	34	30	27	24	23	20	19
		LPH	256	230	170	153	128	115	102	92	85	77	73
4000/4000	8	GPH	90	81	60	54	45	41	36	32	30	27	26
		LPH	341	307	227	205	170	153	136	123	114	102	97
4500/4500	9	GPH	101	91	68	61	51	46	41	36	34	30	29
		LPH	384	345	256	230	192	173	153	138	128	115	110
5000/5000	10	GPH	113	101	75	68	56	51	45	41	38	34	32
		LPH	426	384	284	256	213	192	170	153	142	128	122
6000/6000	12	GPH	135	122	90	81	68	61	54	49	45	41	39
		LPH	511	460	341	307	256	230	205	184	170	153	146

Recovery capacities at 100° F rise equal: for non-simultaneous element operation = 4.1 gal. x kW of one element; for simultaneous element operation = 4.1 gal. x 2/3 kW of both elements. For other rises multiply element kW as previously explained by 410 and divide by temperature rise. Full load current for single phase = total watts ÷ voltage.

SUGGESTED SPECS

The water heater(s) shall be Dura-Power™ Model(s) No. DEL-50 as manufactured by A. O. SMITH or an approved equal. Heater(s) shall be rated at 10 kW, 208 volts, 1 phase, 60 cycle AC, and listed by Underwriters' Laboratories. Models shall meet the standby loss requirements of the U.S. Department of energy and current edition of ASHRAE/IESNA 90.1. Tank(s) shall be 50 gallon capacity. Heater(s) shall have 150 psi working pressure and be equipped with extruded high density anode rod. All steel by firing at a temperature range of 1600°F. Electric heating elements shall be medium watt density with zinc plated copper sheath. Each element shall be controlled by an individually mounted thermostat and high temperature cutoff switch. The outer jacket shall be of backed enamel finish and shall be provided with full size control compartment for performance of service and maintenance through hinged front panels and shall enclose the tank with foam insulation. Electrical junction box with heavy duty terminal block shall be provided (except on 120V & 277V (no junction box on DEL-6 thru 20)). The drain valve shall be located in the front for ease of servicing. Heater tank shall have a three year limited warranty as outlined in the written warranty. Fully illustrated instruction manual to be included.



133603



Submittal Data

PH & WHV Series

Thermal Expansion Tanks

Job Name: _____

Schedule #: _____

Location: _____

Model #: _____

Engineer: _____

Representative: _____

Contractor: _____

Description

The PH Series...eliminates the problem of nuisance cycling of the safety relief valve when a backflow preventer or check valve is present in a domestic hot water system. Utilizing Flexcon's patented double diaphragm system, they provide a reservoir for expanded water volume and help to prevent dangerous over pressurization. The diaphragm is permanently separated from the tank's air charge. The PH tanks also feature a brass system connection for maximum corrosion resistance.

The WHV Series... is designed for larger potable water systems. Like the PH tank, it features a double diaphragm design and a stainless steel system connection.

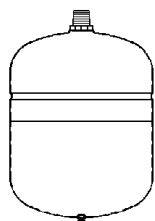
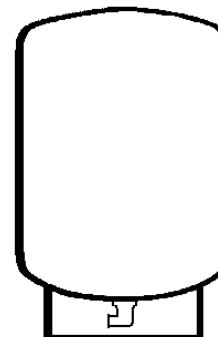
Materials of Construction

Shell: Drawn Steel w/ Epoxy Finish
 Diaphragm: Butyl Rubber
 Connection: PH Series 3/4" MNPT
 WHV Series 1" or 1 1/4" FNPT

Ratings

Maximum Working Pressure 150 PSI
 Pre-charge (Adjustable) 40 PSI

WHV Series
NSF 61 Listed



PH Series
IAPMO & NSF 61
Listed



Note: PH & WHV Series tanks are certified to NSF Standard 61 Cold but are suitable for temperatures up to 200°F



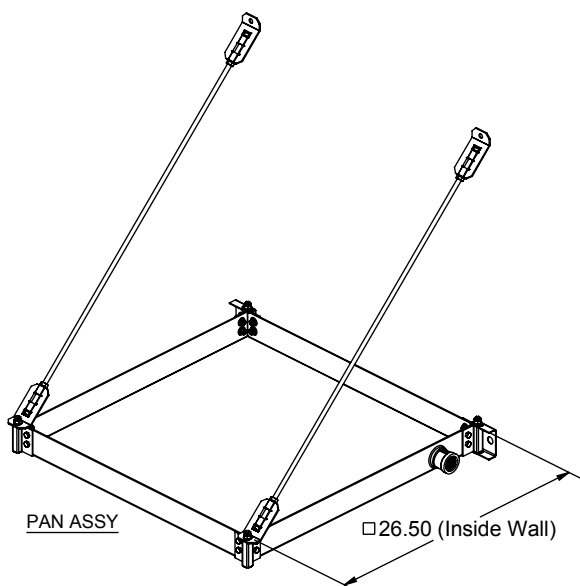
Tank Specifications

Model	Capacity Gallons	Maximum Acceptance Volume	System Conn.	Dimensions (inches)		Weight (lbs)
				Diameter	Height	
PH 5	2.1	1.0	3/4" MNPT	8.5	11.5	7.0
PH 12	4.5	2.0	3/4" MNPT	10	15.0	10.0
PH 25	8.5	3.8	3/4" MNPT	12.5	19.2	11.5
WHV 50	15	6.3	1" FNPT	16	21.7	32
WHV 75	20	9.0	1" FNPT	16	28.8	39
WHV120	32	14.4	1" FNPT	21	27.8	60
WHV165	44	19.8	1 1/4" FNPT	21	36.2	72
WHV320	85	38.3	1 1/4" FNPT	26	44.4	140

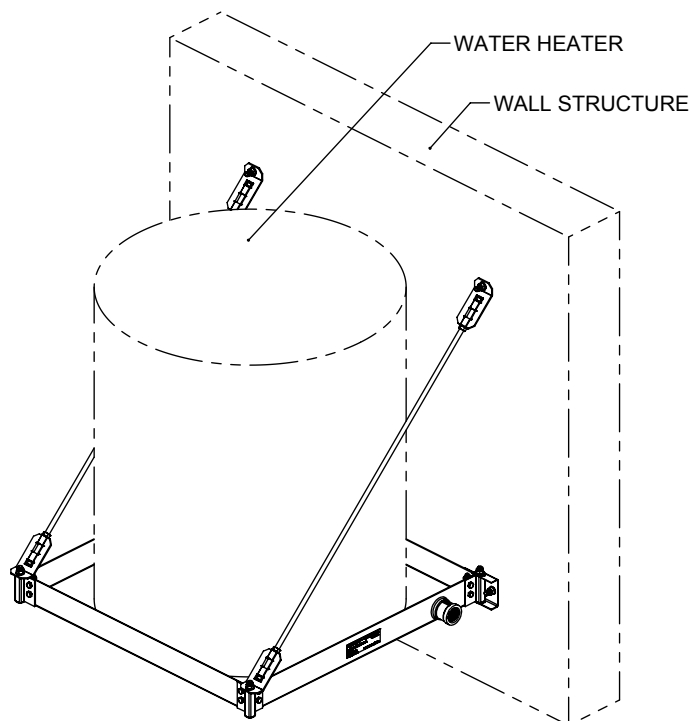
PRODUCT SPECIFICATION DRAWING

QUICK STAND™ #50-SWHP-WM

Wall Mounted Equipment Platform



ALL DIMENSIONS IN INCHES

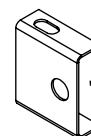


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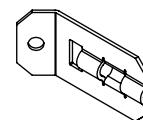
The Wall Mounted Equipment Platform is engineered to support water heaters up to 50 U.S. gallons (or other equipment up to 600 pounds total weight) mounted to a wall. This item also serves as a drain pan.

Product Information:

- Material:
 - Pan: 12 gage CRS, galvanized
 - Corner Brackets (4): 14 gage CRS, galvanized
 - C-Brackets (2): 16 gage CRS, galvanized
 - 45° Brackets (4): 12 gage, CRS, galvanized
 - Threaded Rod (2): Low carbon steel, zinc plated, 3/8" x 37.10" long
- Wide platform allows water heaters up to 26-1/2" diameter
- Watertight corners and welded 1" steel drain body eliminate need for additional drain pan
- Static load rating 600 pounds with 2X safety factor (depending on structural anchorage)
- Professional Engineer stamped documentation available
- Galvanized steel construction
- Suspends with user supplied 3/8" hardware to mount to wall, 4 places
- Installation instructions for mounting to concrete or framed wall structure available
- Patent Pending



"C" Bracket, 2 places



45° Bracket, 4 places

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Job Name:	
Date:	
Part Number:	Qty:
Architect / Owner:	
Contractor:	
Notes:	



EWH-3





Commercial Electric Water Heaters

GOLD SERIES - COMMERCIAL ELECTRIC WATER HEATERS

Designed for use as a recovery heater having its own storage tank. Note: Not recommended for sanitizing water applications.

FEATURES

Meets the standby loss requirements of the U. S. Department of Energy and current edition of AHRAE/IESNA 90.1.

GOLD ELEMENTS - DRE models ship with the Goldenrod 24K gold plated elements (see element availability chart on back). Patented Goldenrod elements provide long life and superior scaling resistance. Low watt density means lower surface temperature to minimize scale buildup and more surface to heat water. Goldenrod elements carry a one-year warranty against failure due to lime scale build-up.

GLASSLINED TANK - Three sizes: 50, 80 and 119 gallon capacity. Tank interior is coated with glass specially developed by A. O. Smith for water heater use. Tanks rated at 150 psi (1034 kPa) working pressure (ASME 150 psi). Foam insulation reduces costly heat loss.

FUSING - Protects all elements, thermostats, and internal wiring circuits against excess current flow. Meets National Electrical Code requirements that non-ASME tanks must have internal fusing when current draw exceeds 48 amps. Available as an option on Canadian built heaters.

STANDARD VOLTAGES - 208, 240 and 480V single-phase and three-phase delta. Convertible from three-phase to single-phase (in field) and vice versa. 277V single-phase also available.

TERMINAL BLOCK - Factory installed. Just bring the service to the heater and connect to block.

CONTROLS - One temperature control (adjustable through a range of 120° to 180°F) and manual reset high temperature cut-off per element. Thermostat step control may be achieved by varying settings on individual temperature controls. Located behind hinged control compartment door for quick, easy access.

OTHER STANDARD FEATURES -

☐ Surface mounted thermostats ☐ Simplified circuitry, color coded for ease of service ☐ Two anode rods for maximum corrosion protection ☐ Cabinet has bonderized undercoat with baked enamel finish ☐ Bottom inlet and top outlet openings ☐ Brass drain valve ☐ CSA Certified and ASME rated T&P relief valve ☐ Single panel control box. ☐ **THREE YEAR LIMITED TANK WARRANTY** - For complete warranty information, consult written warranty.

OPTIONS -

☐ UL and cUL listed conversion kits to adjust voltage and kW requirements in the field before and after installation ☐ ASME 150 psi tank construction ☐ International voltages - 220, 380, 400, 415, 575, and 600 volts, three phase available with Y connected elements ☐ **MANIFOLD KITS** - for multiple tank installations. Two heaters - part # 9003429205, three heaters - part # 9003430205 and four heaters - part # 9003431205

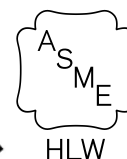
MODELS
DRE-52, 80, 120

318792



ANSI/NSF-5

ASME/CRN
(OPTIONAL)



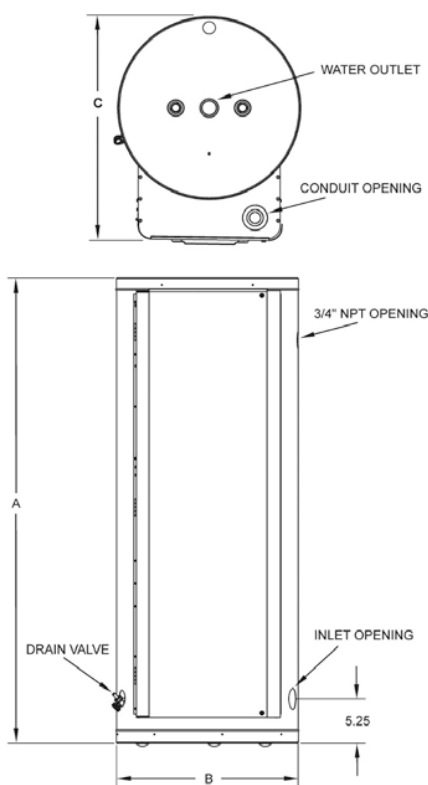
Low Lead Content





Commercial Electric Water Heaters

RECOVERY RATE IN GALLONS PER HOUR AT TEMPERATURE RISE OF



Standard kW Input	BTU/ Hour	30°F 17°C	40°F 22°C	50°F 28°C	60°F 33°C	70°F 39°C	80°F 45°C	90°F 50°C	100°F 56°C	110°F 61°C	120°F 67°C	130°F 72°C	140°F 78°C
6	20,478	82	62	49	41	35	31	27	25	22	21	19	18
9	30,717	123	92	74	62	53	46	41	37	34	31	28	26
12	40,956	164	123	98	82	70	61	55	49	45	41	38	35
13.5	46,075	184	138	111	92	79	69	62	55	50	46	43	40
15	51,195	205	154	123	102	88	77	68	61	56	51	47	44
18	61,434	246	184	148	123	105	92	82	74	67	62	57	53
24	81,912	328	246	197	164	140	123	109	98	90	82	76	70
27	92,151	369	276	221	185	158	138	123	111	101	92	85	79
30	102,390	410	307	246	205	176	154	137	123	112	102	95	88
36	122,868	492	369	295	246	211	184	164	148	134	123	113	105
40.5	138,226	554	418	332	277	237	208	185	166	151	138	128	119
45	153,585	615	461	369	307	263	230	205	184	168	154	142	132
54	184,302	738	554	443	359	316	277	246	221	201	185	170	158

Figured at 1 kW (3413 BTU) = 4.1 Gallons at 100°F temperature rise.

Model Number	Tank Capacity		Dimensions						Inlet/ Outlet (NPT)		Approx. Ship. Wt. (Lbs.)	
			A		B		C					
	gal.	litre	in.	cm	in.	cm	in.	cm	in.	cm	lb	kg
DRE-52	50	189	55 3/4	142	21 3/4	55.2	27	68.6	1 1/4	3.2	265	120
DRE-80	80	300	60 1/4	153	25 1/2	64.8	31	78.7	1 1/4	3.2	280	127
DRE-120	119	450	62 1/4	158.1	29 1/2	75.0	35	88.9	1 1/4	3.2	390	177

kW Input	Model Numbers Tank Capacity in Gallons			Number Of Elements	Element Wattage	Full Load Current In Amperes						
	50	80	119			Single Phase				Three Phase		
						208V	240V	277V	480V	208V	240V	480V
6	DRE-52-6	DRE-80-6	DRE-120-6	3	2,000	28.8	25.0	21.7	12.5	16.7	14.4	7.2
9	DRE-52-9	DRE-80-9	DRE-120-9	3	3,000	43.3	37.5	**32.5	18.8	25.0	21.7	10.8
12	DRE-52-12	DRE-80-12	DRE-120-12	3	4,000	57.7	50.0	43.3	25.0	33.3	28.9	14.4
13.5	DRE-52-13.5	DRE-80-13.5	DRE-120-13.5	3	4,500	64.9	56.3	**48.7	28.1	37.5	32.5	16.2
15	DRE-52-15	DRE-80-15	DRE-120-15	3	5,000	72.1	62.5	**54.2	31.3	41.6	36.1	18.0
18	DRE-52-18	DRE-80-18	DRE-120-18	3*	6,000	86.5	75.0	65.0	37.5	50.0	43.3	21.7
24	DRE-52-24	DRE-80-24	DRE-120-24	6	4,000	115.4	100.0	86.6	50.0	66.6	57.7	28.9
27	DRE-52-27	DRE-80-27	DRE-120-27	6	4,500	129.8	112.5	**97.5	56.3	74.9	65.0	32.5
30	DRE-52-30	DRE-80-30	DRE-120-30	6	5,000	144.2	125.0	**108.3	62.5	83.3	72.2	36.1
36	DRE-52-36	DRE-80-36	DRE-120-36	6	6,000	173.1	150.0	130.0	75.0	99.9	86.6	43.3
40.5	N/A	DRE-80-40.5	DRE-120-40.5	9	4,500	194.7	168.8	**146.2	84.4	112.4	97.4	48.7
45	N/A	DRE-80-45	DRE-120-45	9	5,000	216.3	187.5	**162.5	93.8	124.9	108.3	54.1
54	N/A	DRE-80-54	DRE-120-54	9	6,000	N/A	225.0	194.9	112.5	149.9	129.9	65.0

*208 volt models may contain three (3) additional elements. ** Elements available in incoloy only.

SUGGESTED SPECIFICATION

The heater(s) shall be Gold Series Commercial Electric Model Number **DRE980** as manufactured by A. O. Smith. Heater(s) shall be rated at **9** kW, **480** volts, **3** phase, 60 cycle AC, and listed by Underwriters' Laboratories and approved to the NSF Standard 5 by UL. Tank(s) shall be **80** gallon capacity. Tanks shall be 50, 80 and 119 gallon capacity and shall have 150 psi working pressure and be equipped with extruded high density anode. All internal surfaces of the heater(s) exposed to water shall be glasslined with an alkaline borosilicate composition that has been fused-to-steel by firing at a temperature range of 1400°F to 1600°F. Electric heating elements shall be low watt density Goldenrod 1" screw-in type. Each element shall be controlled by an individually mounted thermostat and high temperature cut-off switch. All internal circuits shall be fused. The outer jacket shall be of baked enamel finish and shall be provided with full size control compartment for performance of service and maintenance through hinged front panel and shall enclose the tank with foam insulation. Electrical junction box with heavy duty terminal block shall be provided. The drain valve shall be located in the front for ease of servicing. Heater tank shall have a three year limited warranty as outlined in the written warranty. Manufacturer shall supply ASME rated temperature and pressure relief valve. Fully illustrated instruction manual to be included. Meets standby loss requirements of the U. S. Department of Energy and current edition of ASHRAE/ENSA 90.1.

For Technical Information and Automated Fax Service, call 800-527-1953. A. O. Smith Corporation reserves the right to make product changes or improvements without prior notice.





Submittal Data

PH & WHV Series

Thermal Expansion Tanks

Job Name: _____

Schedule #: _____

Location: _____

Model #: _____

Engineer: _____

Representative: _____

Contractor: _____

Description

The PH Series...eliminates the problem of nuisance cycling of the safety relief valve when a backflow preventer or check valve is present in a domestic hot water system. Utilizing Flexcon's patented double diaphragm system, they provide a reservoir for expanded water volume and help to prevent dangerous over pressurization. The diaphragm is permanently separated from the tank's air charge. The PH tanks also feature a brass system connection for maximum corrosion resistance.

The WHV Series... is designed for larger potable water systems. Like the PH tank, it features a double diaphragm design and a stainless steel system connection.

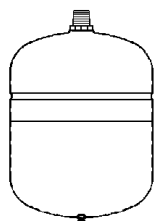
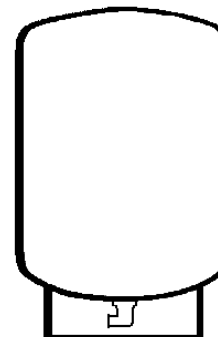
Materials of Construction

Shell: Drawn Steel w/ Epoxy Finish
 Diaphragm: Butyl Rubber
 Connection: PH Series 3/4" MNPT
 WHV Series 1" or 1 1/4" FNPT

Ratings

Maximum Working Pressure 150 PSI
 Pre-charge (Adjustable) 40 PSI

WHV Series
NSF 61 Listed



PH Series
IAPMO & NSF 61
Listed



Note: PH & WHV Series tanks are certified to NSF Standard 61 Cold but are suitable for temperatures up to 200°F



Tank Specifications

Model	Capacity Gallons	Maximum Acceptance Volume	System Conn.	Dimensions (inches)		Weight (lbs)
				Diameter	Height	
PH 5	2.1	1.0	3/4" MNPT	8.5	11.5	7.0
PH 12	4.5	2.0	3/4" MNPT	10	15.0	10.0
PH 25	8.5	3.8	3/4" MNPT	12.5	19.2	11.5
WHV 50	15	6.3	1" FNPT	16	21.7	32
WHV 75	20	9.0	1" FNPT	16	28.8	39
WHV120	32	14.4	1" FNPT	21	27.8	60
WHV165	44	19.8	1 1/4" FNPT	21	36.2	72
WHV320	85	38.3	1 1/4" FNPT	26	44.4	140

EWH-4 & EWH-5





Commercial Electric Water Heaters

Dura-Power™

Designed for use as a recovery heater having its own storage tank. Available in upright standard models (DEN) and lowboy models (DEL).

GLASSLINED TANK - Thirteen sizes; 6 thru 119 gallon capacity. Tank interior is coated with glass specially designed by A. O. Smith for water heater use.

ELEMENTS - Zinc plated copper sheaths for longer life. Medium watt density means lower surface temperature to minimize scale build-up and more surface to heat water. Element sizes from 1.5 to 6 KW. Maximum input 12 KW (see chart on back).

STANDARD VOLTAGES - 120, 277 single phase and 208, 240 and 480V unbalanced three-phase delta; easily converted to single-phase at terminal block (except 208V with 6000 watt elements). Single element heater, single-phase only.

TERMINAL BLOCK - Factory-installed. Just bring the service to heater and connect to block. Terminal block not supplied on 120V & 277 volt models. (No junction box on DEL6-20)

CONTROLS - Temperature control (adjustable through range of 110° to 170°F on single element and 120° to 180°F on dual element) and manual reset high temperature cutoff per element (dual element models). Factory-wired for non-simultaneous operation; easily converted to simultaneous element operation (three phase models only).

CSA CERTIFIED AND ASME RATED T&P RELIEF VALVE

SIMPLIFIED CIRCUITRY, COLOR CODED FOR EASE OF SERVICE

ANODE ROD FOR MAXIMUM CORROSION PROTECTION

CABINET HAS BONDERIZED UNDERCOAT WITH BAKED ENAMEL FINISH

TOP INLET AND OUTLET OPENINGS

DRAIN VALVE (EXCLUDES DEL 6-20)

UL APPROVED FIELD CONVERSION PROGRAM - The 6 through 20 models are UL listed to UL 174 and the 30 through 120 models are listed to UL 1453.

COMPLIANCE - Meets the standby loss Requirements of the U.S. Department of Energy and current edition of ASHRAE/IESNA 90.1.

LIMITED WARRANTY OUTLINE - If the tank should leak any time during the first three years, under the terms of the warranty, A. O. Smith will furnish a replacement heater; installation, labor, handling and local delivery extra. THIS OUTLINE IS NOT A WARRANTY. For complete information consult the written warranty or A. O. Smith Water Products Company.

ELEMENT AVAILABILITY CHART

Input	120V	208V	240V	277V	480V
1,500	YES	YES	YES	YES	—
2,000	YES	YES	YES	YES	YES
2,500	YES	YES	YES	YES	YES
3,000	YES	YES	YES	YES	YES
3,500	—	—	YES	—	—
4,000	—	YES	YES	YES	YES
4,500	—	YES	YES	YES	YES
5,000	—	YES*	YES*	YES*	YES*
5,500	—	—	YES*	—	—
6,000	—	YES**	YES	YES	YES

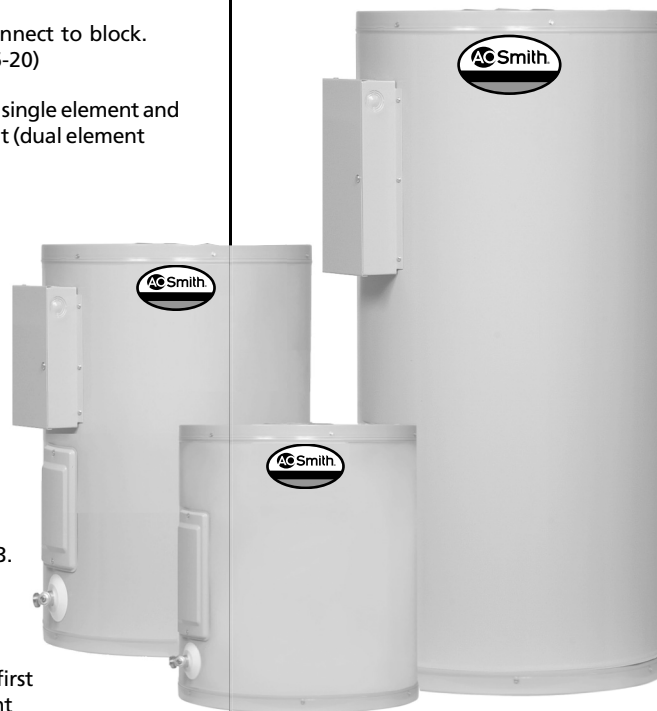
NOTE: DEL-6 not available in above 2.5 KW.
DEL-6 not available in 480V.

* Not available in DEL-10, DEL-15 and DEN-30.

** A6 non-simultaneous circuit only.

128801

DEN/DEL MODELS



DEL-10

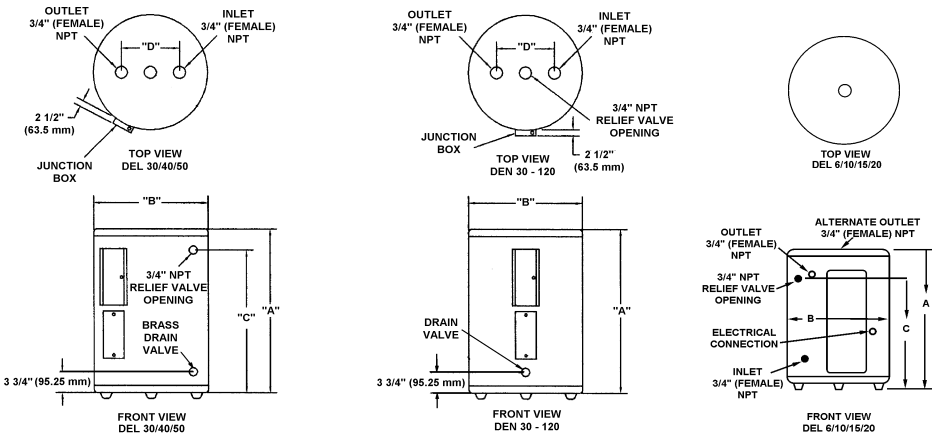




Commercial Electric Water Heaters

Dura-Power™

PRODUCT SPECIFICATIONS



ROUGH-IN DIMENSIONS

Models Dimensions	No. of Elements	Tank Capacity		A		B		C		D		Shipping Weight	
		US Gals.	Litres	inches	mm	inches	mm	inches	mm	inches	mm	Lbs.	Kg.
DEL-6	1	6	23	15 1/2	394	14 1/4	362	11	279	-	-	35	15.9
DEL-10	1	10	38	18 1/4	464	18	457	12 1/2	318	-	-	54	24.5
DEL-15	1	15	57	26	660	18	457	20 1/2	521	-	-	58	26.3
DEL-20	1	20	76	22 1/4	565	21 3/4	552	15 3/8	391	-	-	73	33.1
DEL-30	2	30	114	30 7/8	784	21 3/4	552	24 1/8	613	8	203	100	45.4
DEL-40	2	40	151	32 1/4	819	24	610	25 9/16	649	8	203	125	56.7
DEL-50	2	50	189	32 1/4	819	26 1/2	673	25 1/8	638	8	203	166	75.3
DEN-30	2	30	114	34 1/2	876	20 1/2	521	-	-	8	203	98	44.5
DEN-40	2	40	151	45 1/8	1146	20 1/2	521	-	-	8	203	113	51.3
DEN-52	2	50	189	54 7/8	1394	20 1/2	521	-	-	8	203	131	59.4
DEN-66	2	66	250	60 3/4	1543	21 3/4	552	-	-	8	203	176	79.8
DEN-80	2	80	303	59 3/8	1508	24	610	-	-	8	203	211	95.7
DEN-120	2	119	450	62 7/16	1586	29 3/8	746	-	-	8	203	326	147.9

RECOVERY CAPACITIES

Element Wattage (Upper/Lower)	INPUT KW	U.S. Gallons/Hr and Litres/Hr at TEMPERATURE RISE INDICATED											
		F° C°	36F° 20C°	40F° 22.2C°	54F° 30C°	60F° 33.3C°	72F° 40C°	80F° 44.4C°	90F° 50C°	100F° 55.5C°	108F° 60C°	120F° 66.6C°	126F° 70C°
NON-SIMULTANEOUS OPERATION													
/1500	1.5	GPH	17	15	11	10	8	8	7	6	6	5	5
		LPH	64	58	43	38	32	29	26	23	21	19	18
/2000	2.0	GPH	23	20	15	14	11	10	9	8	8	7	6
		LPH	85	77	57	51	43	38	34	31	28	26	24
/2500	2.5	GPH	28	25	19	17	14	13	11	10	9	8	8
		LPH	107	96	71	64	53	48	43	38	36	32	30
3000/3000	3.0	GPH	34	30	23	20	17	15	14	12	11	10	10
		LPH	128	115	85	77	64	58	51	46	43	38	37
4000/4000	4.0	GPH	45	41	30	27	23	20	18	16	15	14	13
		LPH	170	153	114	102	85	77	68	61	57	51	49
4500/4500	4.5	GPH	51	46	34	30	25	23	20	18	17	15	14
		LPH	192	173	128	115	96	86	77	69	64	58	55
5000/5000	5.0	GPH	56	51	38	34	28	25	23	20	19	17	16
		LPH	213	192	142	128	107	96	85	77	71	64	61
6000/6000	6.0	GPH	68	61	45	41	34	30	27	24	23	20	19
		LPH	256	230	170	153	128	115	102	92	85	77	73
SIMULTANEOUS OPERATION													
3000/3000	6	GPH	68	61	45	41	34	30	27	24	23	20	19
		LPH	256	230	170	153	128	115	102	92	85	77	73
4000/4000	8	GPH	90	81	60	54	45	41	36	32	30	27	26
		LPH	341	307	227	205	170	153	136	123	114	102	97
4500/4500	9	GPH	101	91	68	61	51	46	41	36	34	30	29
		LPH	384	345	256	230	192	173	153	138	128	115	110
5000/5000	10	GPH	113	101	75	68	56	51	45	41	38	34	32
		LPH	426	384	284	256	213	192	170	153	142	128	122
6000/6000	12	GPH	135	122	90	81	68	61	54	49	45	41	39
		LPH	511	460	341	307	256	230	205	184	170	153	146

Recovery capacities at 100° F rise equal: for non-simultaneous element operation = 4.1 gal. x kW of one element; for simultaneous element operation = 4.1 gal. x 2/3 kW of both elements. For other rises multiply element kW as previously explained by 410 and divide by temperature rise. Full load current for single phase = total watts ÷ voltage.

SUGGESTED SPECS

The water heater(s) shall be Dura-Power™ Model(s) No. DEL-15 as manufactured by A. O. SMITH or an approved equal. Heater(s) shall be rated at 3 kW, 208 volts, 1 phase, 60 cycle AC, and listed by Underwriters' Laboratories. Models shall meet the standby loss requirements of the U.S. Department of energy and current edition of ASHRAE/IESNA 90.1. Tank(s) shall be 15 gallon capacity. Heater(s) shall have 150 psi working pressure and be equipped with extruded high density anode rod. All steel by firing at a temperature range of 1600°F. Electric heating elements shall be medium watt density with zinc plated copper sheath. Each element shall be controlled by an individually mounted thermostat and high temperature cutoff switch. The outer jacket shall be of backed enamel finish and shall be provided with full size control compartment for performance of service and maintenance through hinged front panels and shall enclose the tank with foam insulation. Electrical junction box with heavy duty terminal block shall be provided (except on 120V & 277V (no junction box on DEL-6 thru 20)). The drain valve shall be located in the front for ease of servicing. Heater tank shall have a three year limited warranty as outlined in the written warranty. Fully illustrated instruction manual to be included.



128801



Submittal Data

PH & WHV Series

Thermal Expansion Tanks

Job Name: _____

Schedule #: _____

Location: _____

Model #: _____

Engineer: _____

Representative: _____

Contractor: _____

Description

The PH Series...eliminates the problem of nuisance cycling of the safety relief valve when a backflow preventer or check valve is present in a domestic hot water system. Utilizing Flexcon's patented double diaphragm system, they provide a reservoir for expanded water volume and help to prevent dangerous over pressurization. The diaphragm is permanently separated from the tank's air charge. The PH tanks also feature a brass system connection for maximum corrosion resistance.

The WHV Series... is designed for larger potable water systems. Like the PH tank, it features a double diaphragm design and a stainless steel system connection.

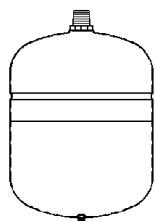
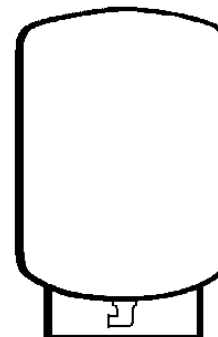
Materials of Construction

Shell: Drawn Steel w/ Epoxy Finish
 Diaphragm: Butyl Rubber
 Connection: PH Series 3/4" MNPT
 WHV Series 1" or 1 1/4" FNPT

Ratings

Maximum Working Pressure 150 PSI
 Pre-charge (Adjustable) 40 PSI

WHV Series
NSF 61 Listed



PH Series
IAPMO & NSF 61
Listed



Note: PH & WHV Series tanks are certified to NSF Standard 61 Cold but are suitable for temperatures up to 200°F



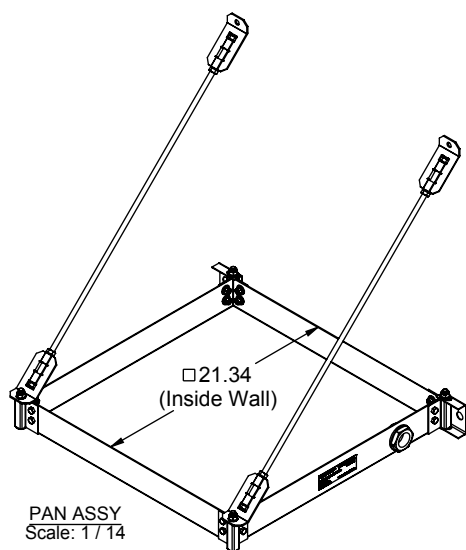
Tank Specifications

Model	Capacity Gallons	Maximum Acceptance Volume	System Conn.	Dimensions (inches)		Weight (lbs)
				Diameter	Height	
PH 5	2.1	1.0	3/4" MNPT	8.5	11.5	7.0
PH 12	4.5	2.0	3/4" MNPT	10	15.0	10.0
PH 25	8.5	3.8	3/4" MNPT	12.5	19.2	11.5
WHV 50	15	6.3	1" FNPT	16	21.7	32
WHV 75	20	9.0	1" FNPT	16	28.8	39
WHV120	32	14.4	1" FNPT	21	27.8	60
WHV165	44	19.8	1 1/4" FNPT	21	36.2	72
WHV320	85	38.3	1 1/4" FNPT	26	44.4	140

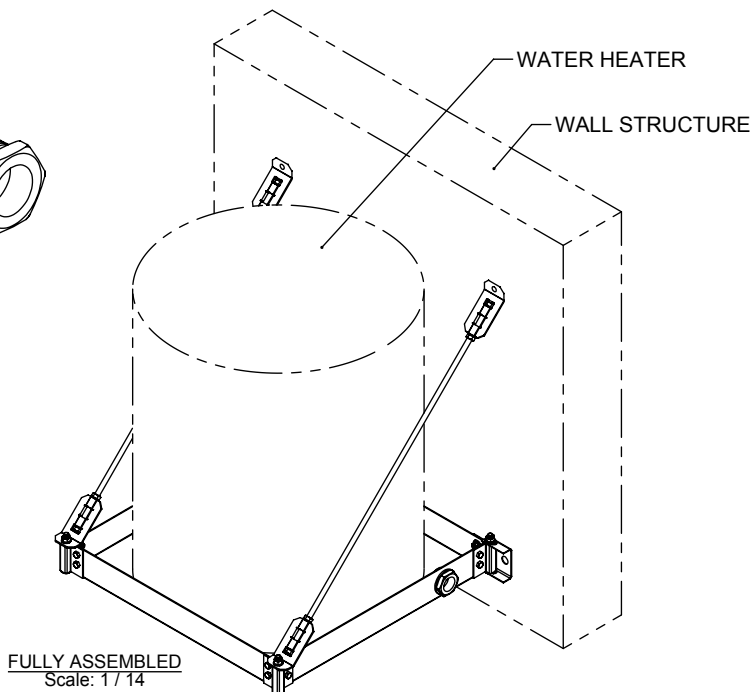
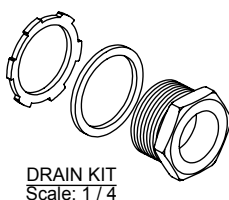
PRODUCT SPECIFICATION DRAWING

QUICK STAND™ #40-SWHP-WM

Wall Mounted Equipment Platform



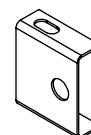
ALL DIMENSIONS IN INCHES



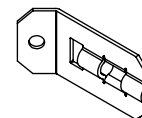
The Wall Mounted Equipment Platform is engineered to support water heaters up to 20 U.S. gallons (or other equipment up to 375 pounds total weight) mounted to a wall. This item also serves as a drain pan.

Product Information:

- Material:
 - Pan: 14 gage CRS, galvanized
 - Corner Brackets (4): 14 gage CRS, galvanized
 - C-Brackets (2): 16 gage CRS, galvanized
 - 45° Brackets (4): 12 gage, CRS, galvanized
 - Threaded Rod (2): Low carbon steel, zinc plated, 3/8" x 29-3/4" long
 - Drain Kit:
 - Hex Bushing: Malleable Iron, galvanized finish
 - Lock Nut: Steel, zinc plated
 - Flanged Gasket: Neoprene, 50 ± .05 Shore A
- Wide platform allows water heaters up to 21-1/4" diameter
- Watertight corners and welded 1" steel drain body eliminate need for additional drain pan
- Static load rating 375 pounds with 2X safety factor (depending on structural anchorage)
- Professional Engineer stamped documentation available
- Galvanized steel construction
- Suspends with user supplied 3/8" hardware to mount to wall, 4 places
- Installation instructions for mounting to concrete or framed wall structure available
- Patent Pending



"C" Bracket, 2 places



45° Bracket, 4 places

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HOLDRITE®

CONVERTING MAKESHIFT METHODS INTO ENGINEERED SOLUTIONSSM
800-321-0316 OR 760-744-6944 / FAX: 760-744-0507 / WWW.HOLDRITE.COM
spec_40-SWHP-WM_RevF(no welding)

Product Submittal	
Job Name:	
Date:	
Part Number:	Qty:
Architect / Owner:	
Contractor:	
Notes:	



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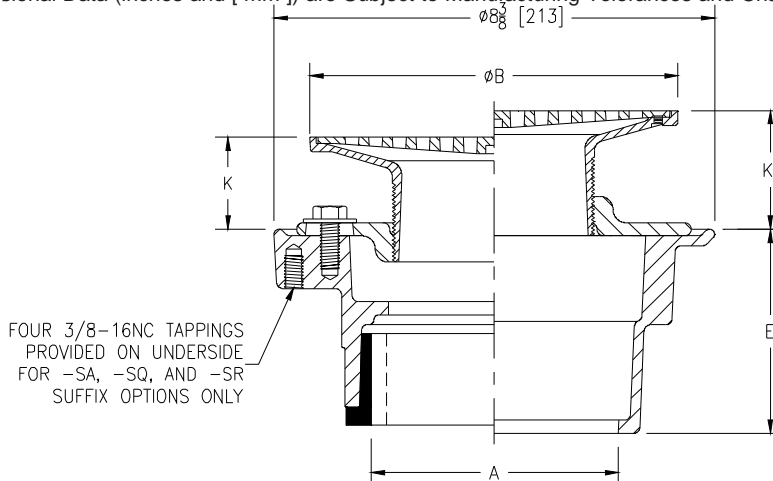
Z415B

BODY ASSEMBLY W/ "TYPE B" STRAINER

SPECIFICATION SHEET

TAG _____

Dimensional Data (inches and [mm]) are Subject to Manufacturing Tolerances and Change Without Notice



Dimensions In Inches						Approx. Wt. Lbs. [kg]	Strainer Open Area Sq. In. [cm²]
A Pipe Size	B Strainer Dia.	K		K'			
		Min.	Max.	Min.	Max.		
2-3 [51-76]	5 [127]	1 [25]	1-1/2 [38]	1-3/32 [28]	2-1/4 [57]	11 [5]	8 [52]
2-3-4 [51-76-102]	6 [152]	1 [25]	1-25/32 [45]	1-13/32 [36]	2-17/32 [64]	13 [6]	9 [58]
2-3-4 [51-76-102]	7 [178]	1 [25]	2-1/8 [54]	1-23/32 [44]	2-7/8 [73]	14 [6]	12 [77]
3-4 [76-102]	8 [203]	1-5/32 [30]	2-1/8 [54]	1-3/4 [44]	2-7/8 [73]	16 [7]	18 [116]
6 [152]	8 [203]	1-5/32 [30]	2-1/8 [54]	1-3/4 [44]	2-7/8 [73]	18 [8]	18 [116]
6 [152]	10 [254]	1-7/16 [37]	2-1/2 [64]	2 [51]	3-1/4 [83]	22 [10]	26 [168]

ENGINEERING SPECIFICATION: ZURNZN415B

Floor and shower drain, Dura-Coated cast iron body with bottom outlet, combination invertible membrane clamp and adjustable collar with seepage slots and "TYPE B" polished nickel bronze, light-duty strainer.

OPTIONS (Check/specify appropriate options)**PIPE SIZE**

2 thru 4 [51 thru 102]
2 thru 4 [51 thru 102]
2 [51]
3 [76]
4 [102]
6 [152]
2 thru 4 [51 thru 102]
2 thru 4 [51 thru 102]

(Specify size/type) OUTLET

____ IC Inside Caulk
____ IG Inside Gasket
____ IP Threaded
____ IP Threaded
____ IP Threaded
____ IP Threaded
____ NH No-Hub
____ **NL Neo-Loc**

'E' BODY HT. DIM.

3-7/8 [98]
3-7/8 [98]
2-3/8 [60]
2-5/8 [67]
2-7/8 [73]
2-3/4 [70]
3-7/8 [98]
3-3/4 [95]

PREFIXES

____ ZB D.C.C.I. Body Assembly w/ Polished Bronze Top
____ **ZN D.C.C.I. Body Assembly w/ Polished Nickel Bronze Top***

SUFFIXES

____ -AA All Acid Resisting Epoxy
____ -AR Acid Resisting Epoxy Coated Cast Iron
____ -C Clamp Collar for -90 Side Outlet Body
____ -CP Chrome-Plated Bronze Top
____ -DC Debris Cover (Field Assembled)
____ -DP Decorative Polished Top
____ -EF 3/8 [16] Extension Frame
____ -G Galvanized Cast Iron
____ -HD Heavy-Duty Slotted Grate (ZN 5 [127] & 6 [152] Sizes Only)
____ -OF Oval Funnel (Z329-7) (6 - 10 [152 - 254] Strainers Only)
____ **-P Trap Primer Connection (Specify 1/2 [13] or 3/4 [19])**
____ -SA Stabilizer Assembly (See Z1035)
____ -SQ Stabilizer Q-Deck (See Z1035-Q)
____ -SR Stabilizer Ring
____ -TC Neo-Loc Test Cap Gasket (2-4 [51-102] NL Outlet Only)
____ -U 1 - 3 [25 - 76] High Extension Adapter
____ -V Backwater Valve
____ -VP Vandal-Proof Secured Top
____ -W Winter Closure Plug
____ -Y Sediment Bucket
____ -4 4 [102] Diameter Funnel (Z328)
____ -18 Leveling Ring (See Z400-18)
____ -90 90° Threaded Side Outlet Body Assembly (2 [51], 3 [76] Only)

*REGULARLY FURNISHED UNLESS OTHERWISE SPECIFIED

REV. P DATE: 06/20/11 C.N. NO. 1214

DWG. NO. 58789

PRODUCT NO. Z4

ZURN INDUSTRIES, LLC ♦ SPECIFICATION DRAINAGE OPERATION ♦ 1801 Pittsburgh Ave. ♦ Erie, PA 16514

Phone: 814/455-0921 ♦ Fax: 814/454-7929 ♦ World Wide Web: www.zurn.com

In Canada: ZURN INDUSTRIES LIMITED ♦ 3544 Nashua Drive ♦ Mississauga, Ontario L4V1L2 ♦ Phone: 905/405-8272 Fax: 905/405-1292



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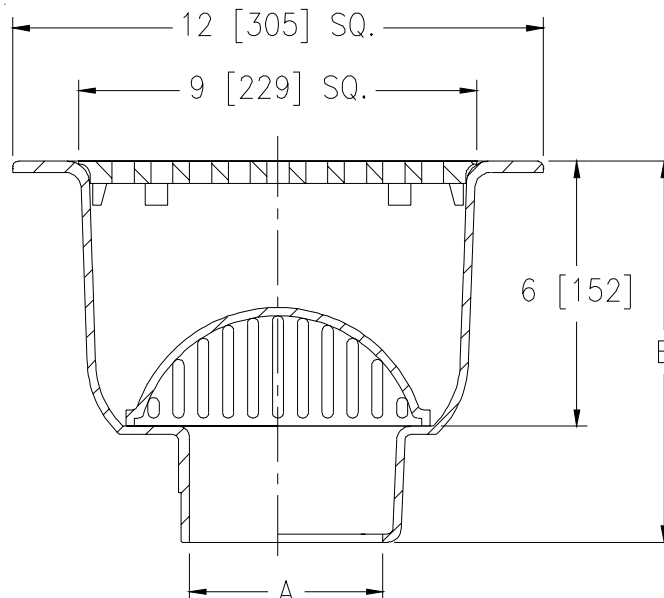
Z1900

SPECIFICATION SHEET

12 x 12 [305 x 305] A.R.E. SANI-FLOR RECEPTOR
6 [152] SUMP DEPTH

TAG _____

Dimensional Data (inches and [mm]) are Subject to Manufacturing Tolerances and Change Without Notice



A- Pipe Size In.	Approx Wt. Lbs. [kg]	Grate Open Area Sq. In. [cm ²]
2-3-4 [50-75-100]	32 [15]	31 [200]

ENGINEERING SPECIFICATION: ZURN Z1900 Sani-Flor Receptor 12 x 12 x 6 [305 x 305 x 152] deep cast iron body and square slotted light duty grate, with white acid resisting porcelain enamel interior and top, complete with white ABS anti-splash interior bottom dome strainer.

OPTIONS (Check/specify appropriate options)

PIPE SIZE

2-3-4 [50-75-100]
2-3-4 [50-75-100]
2-3-4 [50-75-100]

(Specify size/type) **OUTLET**

_____ IC Inside Caulk
_____ NH No-Hub
_____ **NL Neo-Loc**

'E' BODY HT. DIMENSION

Z	ZN
8 5/8 [219]	9 1/8 [232]
8 5/8 [219]	9 1/8 [232]
8 [203]	8 1/2 [216]

PREFIXES

_____ **Z** Cast Iron Body with White A.R.E. Interior*
_____ **ZN** Cast Iron Body with White A.R.E. Interior, 12 1/2 [318] Square N.B. Frame and Full Grate with 1/2 [13] Square Openings (Add 1/2 [13] to 12 [305] and 'E' Dim.)

SUFFIXES

_____ -DX Dex-o-Tex Flange	_____ -9 Angle Frame and Grate
_____ -HD Nickel Bronze Frame w/X-Heavy Duty Stainless Steel Grate	_____ -11 Vandal-Proof Secured Grate
_____ -HP Heel-Proof Grate	_____ -12 Depressed Aluminum Grate
_____ -K Anchor Flange	_____ -15 Solid Loose Set Cover
_____ -KC Anchor Flange with Seepage Holes and Clamp Collar	_____ -16 1/2 Solid Loose Set Cover
_____ -LD (Less) Bottom Dome Strainer	_____ -17 3/4 Solid Loose Set Cover
_____ -P 1/2 [13] Trap Primer Connection (See Z1023)	_____ -18 Solid Loose Set Cover with Square Center Opening
_____ -TC Neo-Loc Test Cap Gasket (2 - 4 [50 - 100] NL Bottom Outlet Only)	_____ -19 Full Hinged Grate
_____ -1 (Less) Grate	_____ -23 Aluminum Bucket
_____ -2 1/2 Grate	_____ -25 White A.R.E. Bucket
_____ -3 3/4 Grate	_____ -31 Stainless Steel Mesh Liner for Bucket
_____ -4 Full Grate with Square Center Opening	_____ -32 Aluminum Dome Strainer
_____ -5 Grate w/ 4 [102] Dia. x 3 3/4 [95] High Funnel	_____ -33 White A.R.E. Anti-Splash Bottom Dome Strainer
_____ -6 Grate w/ 6 [152] Dia. x 6 [152] High Funnel	_____ -34 N.B. Anti-Splash Bottom Dome Strainer
_____ -7 Grate w/ 6 3/4 x 3 x 1 [171 x 76 x 25] High Oval Funnel	
_____ -8 Grate w/ 8 7/8 x 3 5/8 x 3 3/4 [225 x 92 x 95] High Oval Funnel	

*REGULARLY FURNISHED UNLESS OTHERWISE SPECIFIED

REV. E DATE: 11/17/03 C.N. NO. 9165!

DWG. NO. 59341 PRODUCT NO. Z1900



ZURN INDUSTRIES, INC. ♦ SPECIFICATION DRAINAGE OPERATION ♦ 1801 Pittsburgh Ave. ♦ Erie, PA 16514

Phone: 814/455-0921 ♦ Fax: 814/454-7929 ♦ World Wide Web: www.zurn.com

In Canada: ZURN INDUSTRIES LIMITED ♦ 3544 Nashua Drive ♦ Mississauga, Ontario L4V1L2 ♦ Phone: 905/405-8272 Fax: 905/405-1292

124198

GT-1





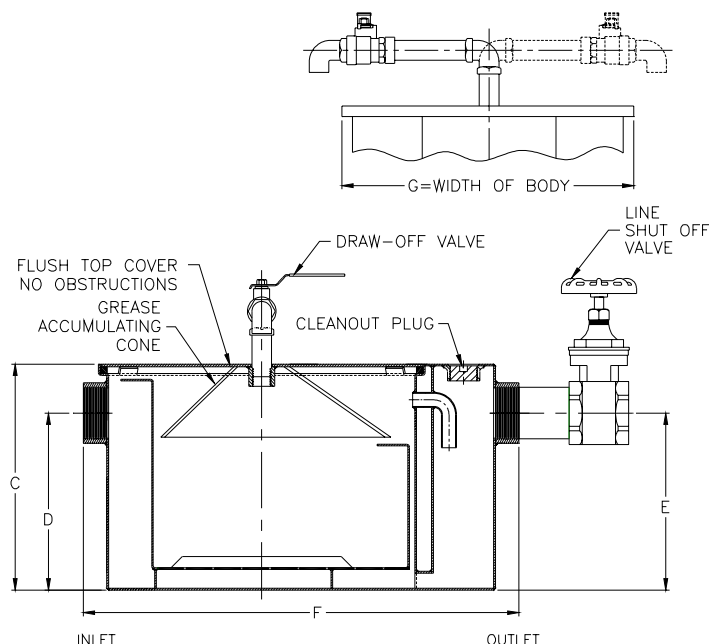
Z1173-RD

GREASE INTERCEPTOR WITH RIGID PIPE DRAW-OFF, ACCUMULATING CONE, AND IN LINE SHUTOFF VALVE

SPECIFICATION SHEET

TAG _____

Dimensional Data (inches and [mm]) are Subject to Manufacturing Tolerances and Change Without Notice



Size	Inlet/ Outlet Size**	Flow Rate G.P.M. [L]	Capacity		Approx. Wt. Lbs. [kg]	Dimensions in Inches			
			Water Gal. [L]	Grease Lbs. [kg]		C	D/E	F	G
200	2 [51]	7 [26]	5 [19]	14 [6]	56 [25]	11 1/4 [286]	8 1/8 [206]	21 1/16 [535]	11 7/8 [302]
300		10 [38]	6 [23]	20 [9]	70 [32]	11 3/4 [298]	8 1/4 [210]	23 1/16 [586]	14 [356]
400	3 [76]	5 [57]	10 [38]	30 [14]	87 [39]	13 3/8 [340]	9 3/8 [238]	25 1/16 [637]	16 3/4 [425]
500		20 [76]	16 [60]	40 [18]	104 [47]	15 [381]	11 3/4 [298]	27 15/16 [710]	17 1/4 [438]
600		25 [94]	21 [79]	50 [23]	129 [59]	17 [432]	12 1/2 [318]	30 3/16 [767]	19 7/8 [505]
700		35 [132]	30 [113]	70 [32]	156 [71]	18 3/4 [476]	14 1/4 [362]	32 1/16 [815]	22 1/2 [572]
800		50 [189]	40 [151]	100 [45]	186 [84]	21 1/2 [546]	16 [406]	33 15/16 [862]	24 1/2 [622]
900		75 [284]	65 [246]	150 [68]	316 [143]	22 3/4 [578]	18 1/2 [470]	36 13/16 [935]	28 5/8 [727]

ENGINEERING SPECIFICATION: ZURN Z1173-RD Acid Resistant Coated interior and exterior fabricated steel grease interceptor, rated at 50 GPM and 100 Lbs. grease capacity, with internal air relief by-pass, bronze cleanout plug and visible double wall trap seal with removable combination pressure equalizing/flow diffusing baffle and sediment tray. Gasketed non-skid secured cover with grease accumulating cone, rigid piping, grease draw-off valve, and an inline closure valve, Complete with Z1108 flow control fitting. Regularly furnished with high inlet and outlet connections. Note: Location of outlet from bottom of interceptor cannot be changed.

PREFIXES

___ **Z** Acid Resistant Coated Fabricated Steel*

SUFFIXES

___ -L Angle type (Z1108-L) flow control device with plunger.

**

Inlet and outlet sizes shown indicate standard operating sizes and flow control settings.

Size #300 will have 3[76] connections reduced to 2[51] and sizes #600 thru #900 will have 4[102] connections reduced to 3[76] as standard. If changed, flow control must be adjusted accordingly.

*REGULARLY FURNISHED UNLESS OTHERWISE SPECIFIED

REV. A DATE: 2/24/04 C.N. NO. 9196

DWG. NO. 67408 PRODUCT NO. Z1173-RD

ZURN INDUSTRIES, INC. ♦ SPECIFICATION DRAINAGE OPERATION ♦ 1801 Pittsburgh Ave. ♦ Erie, PA 16514

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In Canada: ZURN INDUSTRIES LIMITED ♦ 3544 Nashua Drive ♦ Mississauga, Ontario L4V1L2 ♦ Phone: 905/405-8272 Fax: 905/405-1292



333064

HB-1



The Model **MB24** & MB26 Modular Box systems are designed to securely contain a Woodford Model 24 or 26 wall faucet in mild climate area commercial buildings.

The MB24 includes a light weight, high impact, composite box that is stubbed out of a frame or masonry wall. After the wall is finished, a heavy 14 gauge stainless steel door and fascia assembly is screwed into the box to create a durable, secure access and an attractive front.

Two lock styles are available:

- Loose Tee Key (requires a furnished Tee Key to engage a recessed square lock stem to operate)
- Key Cylinder Lock (with (2) keys)

Complete the Modular Box system by choosing a reliable Woodford Model 24P or 26P with either 1/2" or 3/4" NPT inlet options. *These faucets are intended for irrigation purposes in mild climate areas.*

SPECIFICATIONS:

- NIDEL® Model 34HF Anti Siphon Vacuum Breaker
- 3/4" male hose thread
- ASSE Standard 1011 approved
- Listed by IAPMO
- Canadian Standards Association
- No spray back



Model
24P-1/2 or 24P-3/4



- 50HF Backflow Preventer Pat. Pend.
- ASSE 1052 Approved
- Listed by IAPMO
- Field Testable
- Two Independent Check Valves
- Drains automatically when hose is removed
- No spray back



Model
26P-1/2 or 26P-3/4

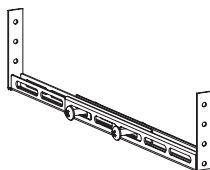


FEATURES Common to all faucets:

- Chrome exterior finish
- EPDM packing prevents leaking
- Adjustable packing nut brass nut with deep stem guard
- Standard "O" size seat washer
- Standard polycarbonate wheel handle and loose tee key
 - Optional metal wheel handle
- Max Pressure: 125 p.s.i.
- Max Temperature: 120° F

RK-Bracket - Sold Separately

Bracket may be used to mount or support the box in a stud wall. Hole centers are provided on back of box for drilling (2) 9/32" holes. Bracket extends from 10" to 19".



**For Installation Instructions go to
www.woodfordmfg.com or call 1-800-621-6032**

Mild Climate Wall Faucets Modular Box

MB24 & MB26

WOODFORD



All MB24 models include Model 24 Faucet, Composite Box, Stainless Steel Door & Fascia

MB24-1/2	Includes Tee Key Lock
-----------------	-----------------------

MB24-3/4	Includes Tee Key Lock
-----------------	-----------------------

MB24-1/2-K	Includes Key Cylinder Lock
-------------------	----------------------------

MB24-3/4-K	Includes Key Cylinder Lock
-------------------	----------------------------

All MB26 models include Model 26 Faucet, Composite Box, Stainless Steel Door & Fascia

MB26-1/2	Includes Tee Key Lock
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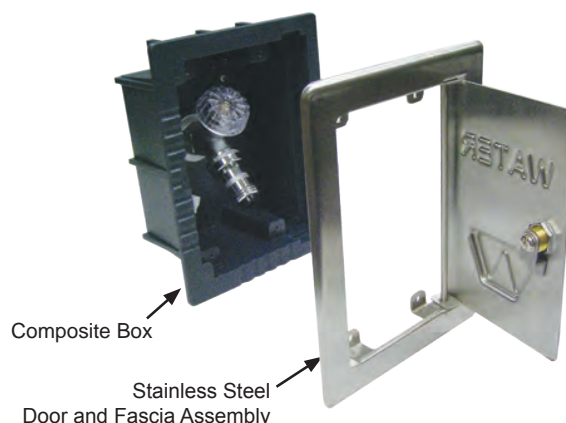
MB26-3/4	Includes Tee Key Lock
-----------------	-----------------------

MB26-1/2-K	Includes Key Cylinder Lock
-------------------	----------------------------

MB26-3/4-K	Includes Key Cylinder Lock
-------------------	----------------------------

Modular Box Components

See Rough-In Dimensions on reverse side.



Composite Box

Stainless Steel
Door and Fascia Assembly

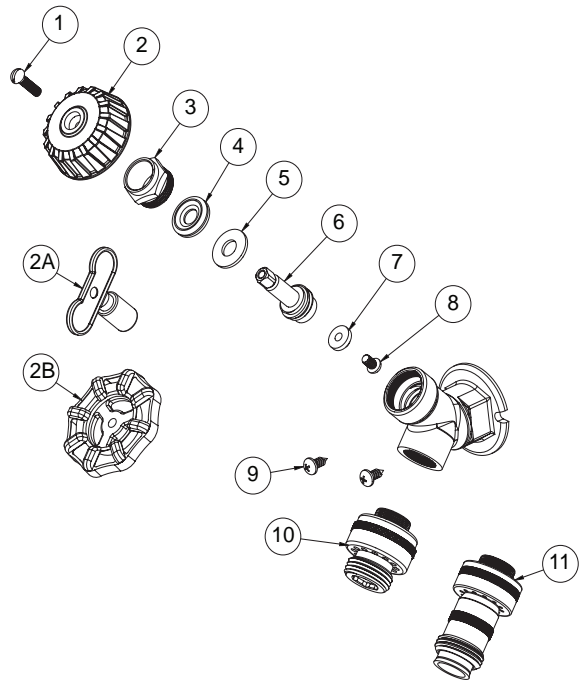
*See reverse side for available
Door & Fascia Repair Kit.*





MODEL MB24 & ~~MB26~~ PARTS LIST

ITEM	PART#	DESCRIPTION
1	30121	Handle Screw - Nickel
2	30120	Wheel Handle - Clear
2A	50009	Tee Key
2B	30106	Wheel Handle - Metal
3	30109	Packing Nut - chrome
4	30247	EPDM Packing
5	30105	Packing Support Washer
6	30104	Operating Stem
7	30008	Washer
8	30009	Washer Screw
9	30151	Fascia Screws (2)
10	34HF-CH	34HF Vacuum Breaker for Model 24
11	50HF-CH	50HF Backflow Preventer for Model 26
	RK-24	Chrome Repair Kit (Includes items 1-8)



MB24BX



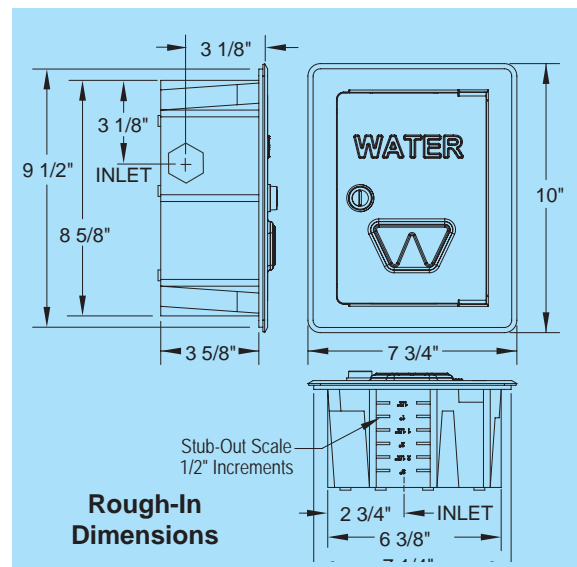
MB24BX-K

MB24BX & MB24BX-K models include:
Composite Box, Stainless Steel Door & Fascia *Only*

MB24BX Includes Tee Key Lock

MB24BX-K Includes Key Cylinder Lock

- Shipped in individual cartons
- Shipping Weight: 3 lbs-3 oz



Replaceable Stainless Steel Door & Fascia RK's

RK-24MBDR & RK-24MBDR-K models include:
Stainless Steel Door & Fascia *Only*

RK-24MBDR Includes Tee Key Lock

RK-24MBDR-K Includes Key Cylinder Lock

- Shipped in individual cartons
- Shipping Weight: 2 lbs-3 oz



RK-24MBDR

RK-24MBDR-K

Manufactured under one or more of the following patents and patents pending: U.S. Patents: 3,414,001; 3,543,786; 4,178,956; 4,316,481; D216,790; D216,791; D277,365; D277,366; Canada Patents: 822,458; 852,529; 865,995

For more information contact...

WOODFORD MANUFACTURING COMPANY

2121 Waynoka Road, Colorado Springs, Colorado 80915 • Phone: (800) 621-6032 • Fax: (800) 765-4115

To view our complete product line visit: www.woodfordmfg.com or email: sales@woodfordmfg.com

A Division Of WCM Industries, Inc.



HD-1





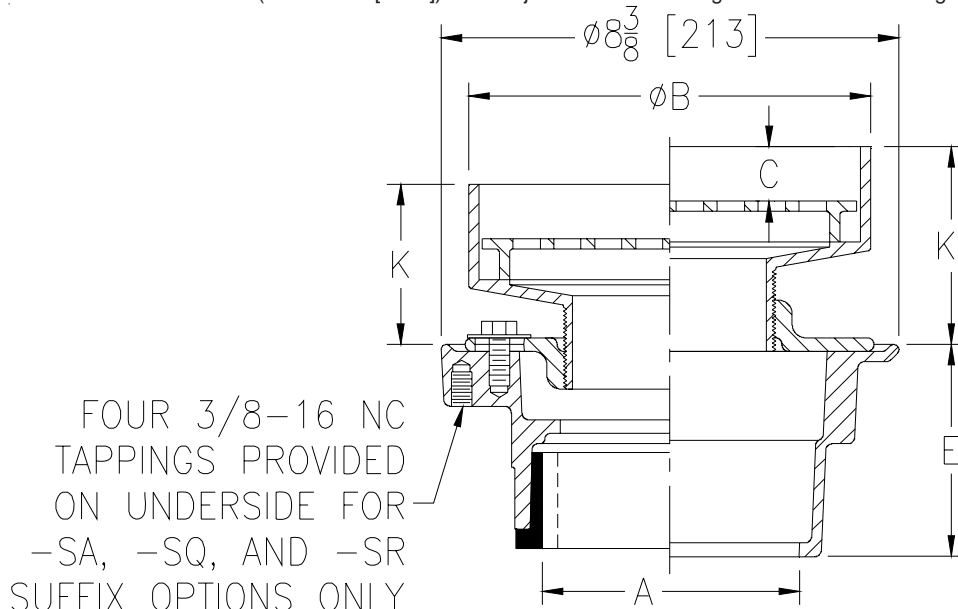
Z415I

BODY ASSEMBLY W/ "TYPE I" STRAINER

SPECIFICATION SHEET

TAG _____

Dimensional Data (inches and [mm]) are Subject to Manufacturing Tolerances and Change Without Notice



Dimensions In Inches							Approx. Wt. Lbs. [kg]	Strainer Open Area Sq. In. [cm²]
A - Pipe Size	B Strainer Dia.	C	K		K'			
			Min.	Max.	Min.	Max.		
2-3 [51-76]	5-7/16 [138]	7/8 [22]	1-9/16 [40]	2-5/8 [67]	2-1/8 [54]	3-3/8 [86]	14 [6]	8 [52]
2-3-4 [51-76-102]	7-3/8 [187]	1 [25]	2-9/16 [65]	3-3/8 [86]	2-7/8 [73]	4-1/8 [105]	19 [9]	13 [84]
3-4 [76-102]	9 [229]	1/2 [13]	2-3/16 [56]	3-1/8 [79]	2-5/8 [67]	3-7/8 [98]	23 [10]	23 [148]
6 [152]	9 [229]	1/2 [13]	2-3/16 [56]	3-1/8 [79]	2-5/8 [67]	3-7/8 [98]	23 [10]	23 [148]

ENGINEERING SPECIFICATION: ZURNZN415I

Floor and shower drain, Dura-Coated cast iron body with bottom outlet, combination invertible membrane clamp and adjustable collar with seepage slots and "TYPE I" polished nickel bronze strainer with raised flange.

OPTIONS (Check/specify appropriate options)**PIPE SIZE**

2 thru 4 [51 thru 102]
2 thru 4 [51 thru 102]
2 [51]
3 [76]
4 [102]
6 [152]
2 thru 4 [51 thru 102]
2 thru 4 [51 thru 102]

(Specify size/type) **OUTLET**

_____ IC Inside Caulk
_____ IG Inside Gasket
_____ IP Threaded
_____ IP Threaded
_____ IP Threaded
_____ IP Threaded
_____ NH No-Hub
_____ **NL Neo-Loc**

'E' BODY HT. DIM.

3-7/8 [98]
3-7/8 [98]
2-3/8 [60]
2-5/8 [67]
2-7/8 [73]
2-3/4 [70]
3-7/8 [98]
3-3/4 [95]

PREFIXES

_____ ZB D.C.C.I. Body Assembly w/ Polished Bronze Top
_____ **ZN** D.C.C.I. Body Assembly w/ Polished Nickel Bronze Top*

SUFFIXES

_____ -AR Acid Resisting Epoxy Coated Cast Iron
_____ -G Galvanized Cast Iron
_____ **-P** Trap Primer Connection (Specify 1/2 [13] or 3/4 [19])
_____ -SA Stabilizer Assembly (See Z1035)
_____ -SQ Stabilizer Q-Deck (See Z1035-Q)
_____ -SR Stabilizer Ring
_____ -TC Neo-Loc Test Cap Gasket
(2 - 4 [51 - 76] NL Bottom Outlet Only)
_____ -TS Top Secured with Slotted Screws

_____ -U 1 - 3 [25 - 76] High Extension Adapter
_____ -V Backwater Valve
_____ -VP Vandal-Proof Secured Top
_____ -Y Sediment Bucket
_____ -18 Leveling Ring (See Z400-18)
_____ -90 90° Threaded Side Outlet Body
Assembly (2 [51], 3 [76] Only)

*REGULARLY FURNISHED UNLESS OTHERWISE SPECIFIED

REV. M DATE: 07/29/11 C.N. NO. 121

DWG. NO. 58797

PRODUCT NO. :

ZURN INDUSTRIES, LLC ♦ SPECIFICATION DRAINAGE OPERATION ♦ 1801 Pittsburgh Ave. ♦ Erie, PA 16514

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In Canada: ZURN INDUSTRIES LIMITED ♦ 3544 Nashua Drive ♦ Mississauga, Ontario L4V1L2 ♦ Phone: 905/405-8272 Fax: 905/405-1292

101930



IMB-1



3/8" COMPRESSION OUTLET CONNECTION OUTLET BOX

Ox Box™

Item # Submitted	_____
Job Name	_____
Location	_____
Engineer	_____
Contractor	_____
PO#	_____ TAG _____

SPECIFICATION

Sioux Chief 696 series Ox Box 3/8" compression outlet connection outlet box shall be used where necessary in plumbing supply systems. Box shall allow for mounting with supply lines from top or bottom, mounted on-stud. Unit shall be available with plain valve or valve with water hammer arrester. Arrester shall be certified to ASSE 1010 and shall be UPC listed. Metal support bracket shall install into top track of box for additional support. Outlet connection shall be generally 3/8".

MATERIALS

outlet box: ABS
 frame: 56G
 frame extension*: fire-rUHX ABS
 bracket: galvanized steel
 arrester body: Type L copper tube
 piston: polypropylene with two EPDM o-rings
 piston lubrications: Dow-Corning, 111 FDA approved silicone compound
 valve body: chrome-plated forged brass

* 696-EX available separately. Used with two layers of drywall for 2-hour specifications.

VALVE/ARRESTER WORKING LIMITS

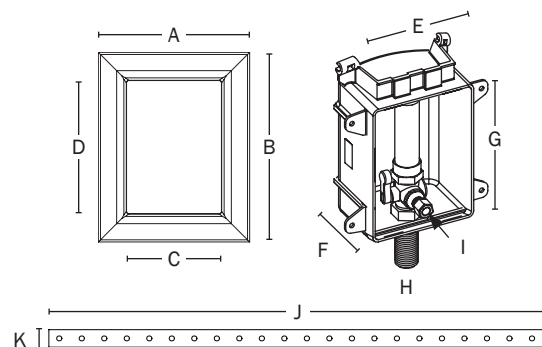
max working temperature: 250°F
 max testing air pressure: 100 PSIG
 max working/testing pressure: 250 PSIG

DIMENSIONS

A: frame width	5 3/4"
B: frame height	7 1/4"
C: frame opening width	3 5/8"
D: frame opening height	5 1/8"
E: rough-in box inner width	4"
F: rough-in box overall depth	3 1/2"
G: rough-in box inner height	5 1/2"
H: supply connection	1/2" nominal (see 'C' below)
I: outlet connection	3/8" compression
J: bracket length	18"
K: bracket width	5/8"
bracket thickness	16 gauge



696!1001MF



CERTIFICATIONS/APPROVALS

Listed by UPC/IAPMO to meet UPC
 Conforms to IPC
 Valves meet ASME A112.18.1
 SCM items available with no-lead valves
 are compliant with NSF-61 Annex G and
 California No Lead Plumbing Law



Create Item Number

696 A 10 B 1 C F

e.g. 696!1011MF = fire-rated 3/8" compression outlet connection box, female sweat valve with arrester, packaged with frame

A VALVES

- ☐ R Plain valve
☒ RG No-lead valves¹

B ARRESTER

- ☐ 0 No arrester
☒ 1 With arrester

C SUPPLY CONNECTION

- ☐ M 1/2" female sweat
☒ C 1/2" male CPVC
☐ X 1/2" PEX crimp F1807
☐ W 1/2" PEX cold expansion F1960
☐ V 1/2" Viega PureFlow® PEX
☐ A 1/2" PEX cold expansion F2080

ACCESSORIES

- ☐ 696-EX frame extension
¹ Compliant with NSF-61 Annex G and California No Lead Plumbing Law

Sioux Chief

Sioux Chief Manufacturing Company • tel: 1-800-821-3944 • www.siouxchief.com • fax: 1-800-758-5950



350369

L-1 & L-2

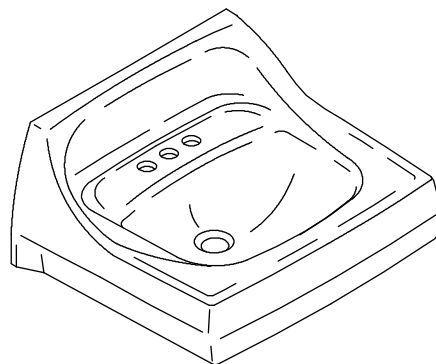



KINGSTON™

Features

- Vitreous china
- Wall-mount
- With hanger
- With overflow
- Drilled for concealed arm carrier
- Optional soap dispenser hole on left (-L) or right (-R)
- 8" (203 mm) centers, 4" (102 mm), centers or single hole
- 21-1/4" (540 mm) x 18-1/8" (460 mm)

WALL-MOUNT LAVATORY **K-2005** ALSO K-2006, K-2007

ADA
CSA B651
OBC


Codes/Standards Applicable

Specified model meets or exceeds the following:

- ADA
- ICC/ANSI A117.1
- CSA B651
- OBC
- ASME A112.19.2/CSA B45.1

Colors/Finishes

- 0: White
- Other: Refer to Price Book for additional colors/finishes

Accessories

- CP: Polished Chrome
- Other: Refer to Price Book for additional colors/finishes

Specified Model

Model	Description	Colors/Finishes	
K-2005	Lavatory with 4" (102 mm) centers less soap dispenser hole	<input type="checkbox"/> 0	<input type="checkbox"/> Other_____
K-2005-L	Lavatory with 4" (102 mm) centers with soap dispenser hole on left	<input type="checkbox"/> 0	<input type="checkbox"/> Other_____
K-2005-R	Lavatory with 4" (102 mm) centers with soap dispenser hole on right	<input type="checkbox"/> 0	<input type="checkbox"/> Other_____
K-2006	Lavatory with 8" (203 mm) centers less soap dispenser hole	<input type="checkbox"/> 0	<input type="checkbox"/> Other_____
K-2007	Lavatory with single hole less soap dispenser hole	<input checked="" type="checkbox"/> 0	<input type="checkbox"/> Other_____
K-2007-L	Lavatory with single hole with soap dispenser hole on left	<input type="checkbox"/> 0	<input type="checkbox"/> Other_____
K-2007-R	Lavatory with single hole with soap dispenser hole on right	<input type="checkbox"/> 0	<input type="checkbox"/> Other_____

Recommended Accessories			
K-8998	P-Trap	<input type="checkbox"/> CP	<input type="checkbox"/> Other_____

21487

Product Specification

Lavatory shall be made of vitreous china. The lavatory shall be 21-1/4" (540 mm) in length and 18-1/8" (460 mm) in width. Lavatory shall be wall-mounted with hangers. Lavatory shall have 8" (203 mm) centers (K-2006), 4" (102 mm) centers (K-2005), or single hole (K-2007). Lavatory shall have overflow. Lavatory shall be drilled for concealed arm carrier. Lavatory shall have optional soap dispenser hole left (-L) or right (-R). Lavatory shall be Kohler Model K- 2007 - 0 - _____.



KINGSTON™

Technical Information

Fixture*:	
Basin area	16" (406 mm) x 10" (254 mm)
Water depth	3-1/8" (79 mm)
Drain hole	Ø 1-3/4" (44 mm)
* Approximate measurements for comparison only.	

Holes	K-2005	K-2006	K-2007
Spout	Ø 1-1/4" (32 mm)	Ø 1-3/8" (35 mm)	Ø 1-3/8" (35 mm)
Faucet	Ø 1-1/4" (32 mm)	Ø 1-3/8" (35 mm)	
Soap dispenser	Ø 1-1/4" (32 mm)		Ø 1-1/4" (32 mm)

Included components:	
Hanger	64839

Installation Notes

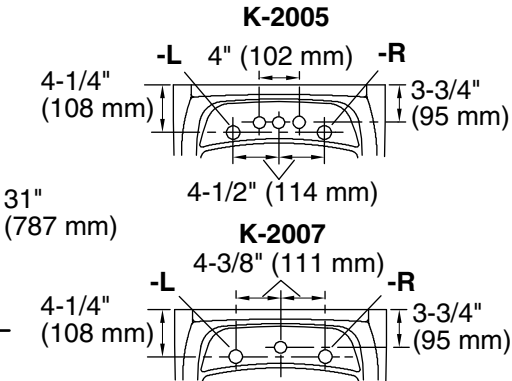
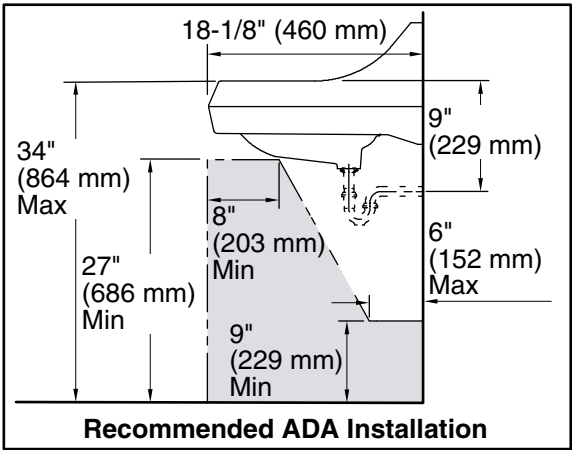
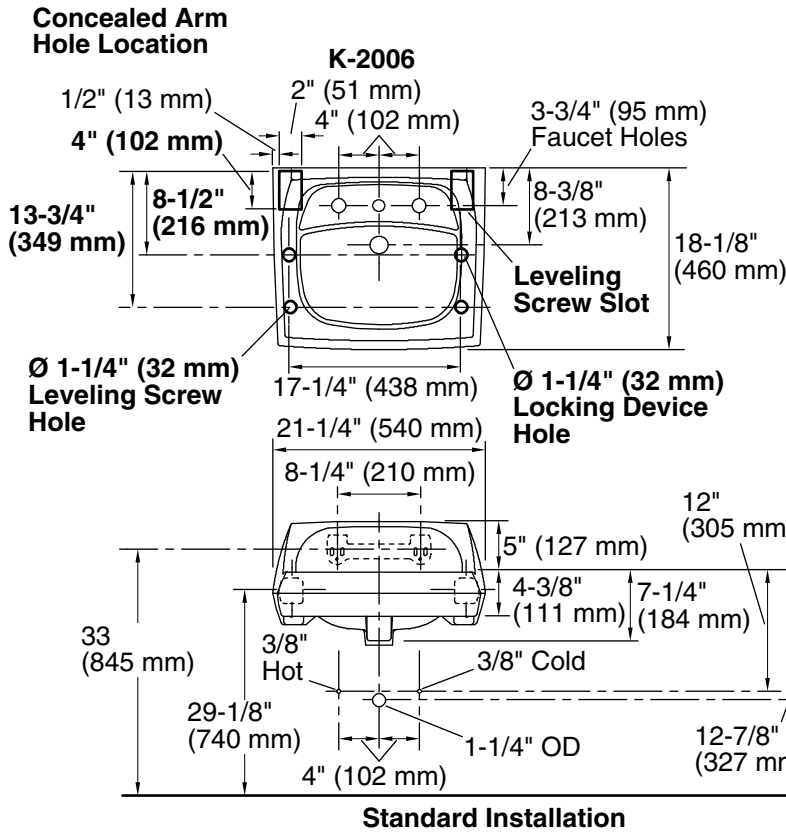
Install this product according to the installation guide.

Will comply with **ADA** when installed per Section 606 Lavatories of the Act.

Will comply with **CSA B651** when installed per Clause 4.3.3 of the standard.

Will comply with **OBC** when installed per Clause 3.8.3.11.

21487



Product Diagram



Metering Handwash Faucet

TECK®
DELTA®
COMMERCIAL

SPECIFICATION: (example)

- **HEAVY-DUTY CAST BRASS**
 - single hole mount faucet
- Polished chrome plated finish
- Vandal Resistant Brass Handle activator
- Delta® metering slow close cartridge
- Two Body mounted stainless steel Anti-Rotation locking pins
- Vandal resistant spout outlet
- **Total flow not to exceed 0.25 gallon per handle activation**

☐ **87T104** With Push Button

☐ **87T105** With Lever Handle
ADA compliant requires less than 5 lbs. operating force


(Formerly 86T Series)


87T104

86T1104
SPECIFICATION: (example)
☐ **86T1104**

- Single hole mount faucet
- Polished chrome plated finish
- Vandal Resistant brass push button
- Delta® metering slow close cartridge
- Vandal resistant spout outlet
- **Total flow not to exceed 0.25 gallon per handle activation**

☐ **86T0104**

- Same as 86T1104 but with (86T151) 4" cast brass, polished chrome plated coverplate


87T111
SPECIFICATION: (example)

- **HEAVY-DUTY CAST BRASS**
 - single hole mount faucet
- Polished chrome plated finish
- Vandal Resistant Brass Handle activator
- Delta® metering slow close cartridge
- Two Body mounted stainless steel Anti-Rotation locking pins
- Mixing tee and inlet checks
- Vandal resistant spout outlet
- **Total flow not to exceed 0.25 gallon per handle activation**

☐ **87T110** With Push Button

☐ **87T111** With Lever Handle
ADA compliant requires less than 5 lbs. operating force


(Formerly 86T Series)

COVERPLATE
SPECIFICATION: (example)

- ☐ **87T151** with center faucet hole, two holdown shanks
 - **HEAVY DUTY FORGED CAST BRASS**
 - 102mm (4") center
 - Polished chrome plated finish
 - With locating holes for 87T104, 87T105, 87T110 and 87T111 metering faucets with anti-rotation locking pins
 - **For secure Public Washroom Faucet/Fixture Installations**


87T151
Engineer/Architect Approval

Model Specified:


Approval:

Date:

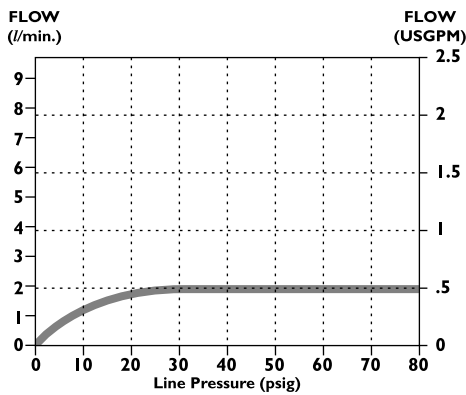


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**Approvals:**

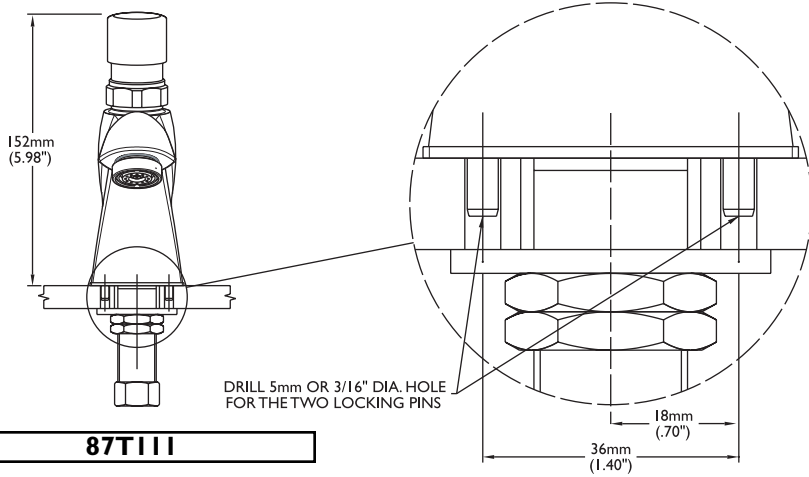
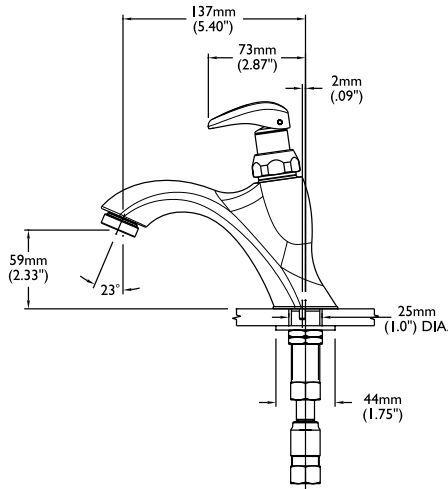
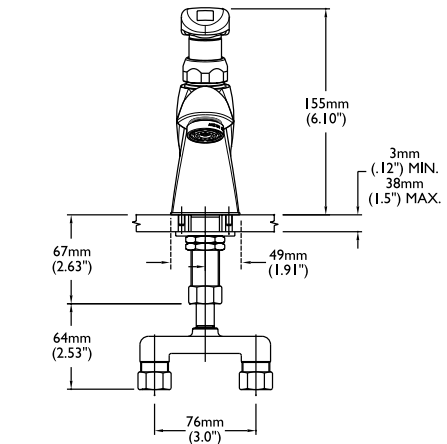
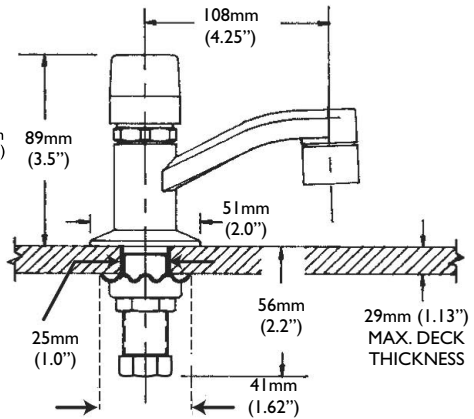
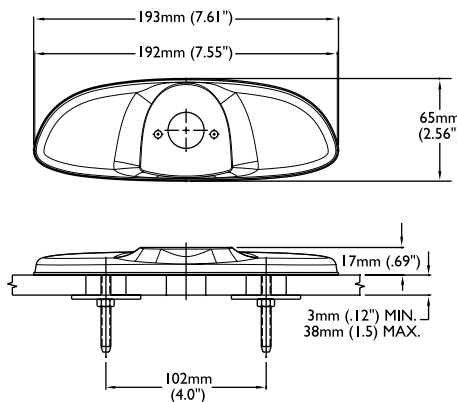
- CSA certified
- Complies to ASME A112.18.1
- Lever Handle ADA Compliant and meets Handicapped Accessibility Standard ASME A117.1  of less than 5 lbs. operating force.
- IAPMO listed

(Contact Delta Representative for State and/or Local Approvals.)

FLOWRATE vs PRESSURE**Spout Outlets**

— Low Flow Outlet No. 5

TECK® Metering Handwash Faucet

87T104 - 87T111 - LOCKING PINS**87T111****87T151****86T1104****INLETS - 1/2" MIP/Coupling Nuts**

Note: Measurements may vary $\pm 6\text{mm}$ (0.25")

Refer to www.specselectonline for individual models.

Note: Use this page front and back as a product submittal sheet.

DSP-87T

Delta reserves the right (1) to make changes in specifications and materials, and (2) to change or discontinue models, both without notice or obligation. Dimensions are for reference only. See current full-line price book or www.specselectonline.com for finish options and product availability.

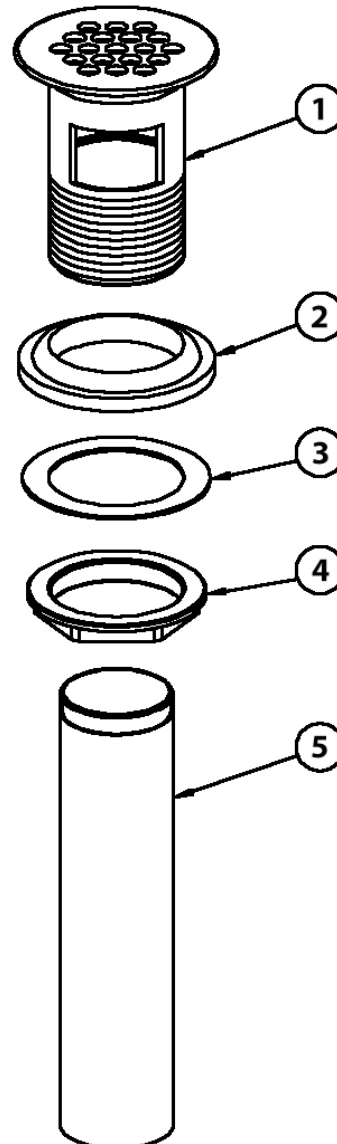
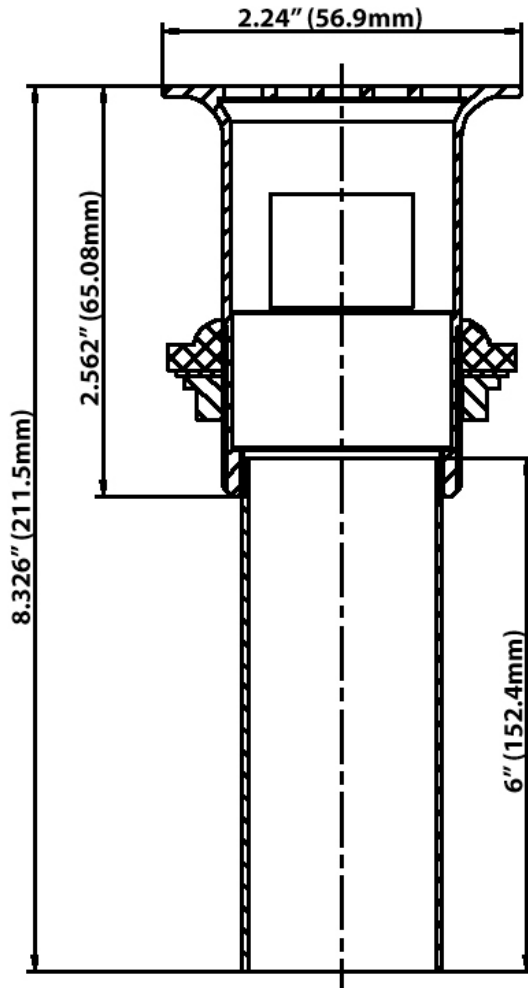
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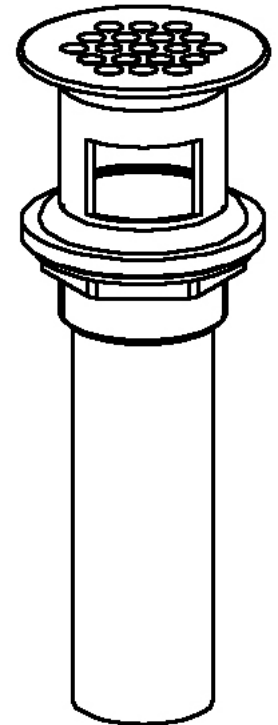
SPECIFICATIONS

19-HOLE COMMERCIAL GRID DRAIN

- 1-1/4" Forged Brass Construction
- 6" 17 GA Tailpiece
- Chrome Plated



ML760



237478

Cross Reference

760-1	D70-100
5680PC	FY-155
155A	Z8743-PC

CERTIFICATIONS

- cUPC



No.	Part Name	Material
1	Grid Body	Brass
2	Washer	Brass
3	Friction Washer	Paper
4	Locknut	Zinc
5	Tailpiece	Brass





4675 W. 160th St.
Cleveland, Ohio 44135
Ph: (800) 321-9532
Fax: (800) 321-9535
www.dearbornbrass.com

SUBMITTAL SPECIFICATION

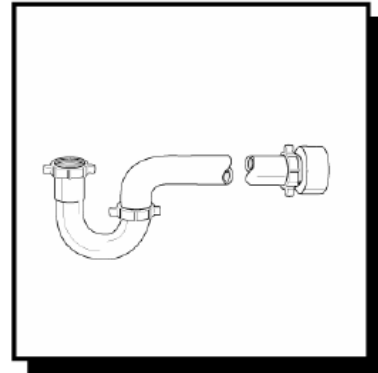
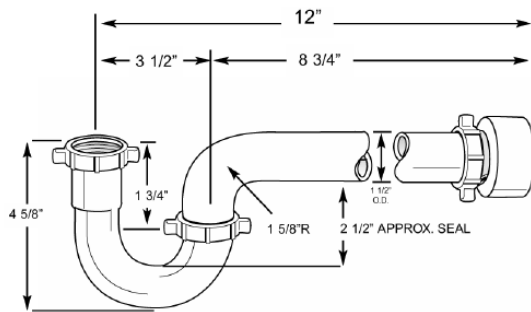
PLASTIC TUBULAR 1-½" P-TRAP WITH THREADED ADAPTER

Engineering Specification: Dearborn Brass Plastic Tubular 1-½" P-Traps with Threaded Adapter are designed for use in tubular drain applications. Options include PVC or ABS plastic adapter and True Blue Premium Washers for superior sealing. Available in white or black polypropylene plastic.

Job Reference

DESCRIPTION

- Made of polypropylene plastic
- Plastic Tubular P-Trap with Threaded Adapter
 - Plastic Tubular Quarter Bend
 - Plastic Tubular J-Bend
 - Schedule 40 Threaded Adapter
 - (3) Slip Joint Nuts
 - (1) 1-½" Washer
 - (1) 1-¼" x 1-½" Reducing Washer
- Reversible P-Trap includes reversible J-Bend
- Deep Flange P-Trap includes plastic deep flange



- Meets ASTM F 409
- IAPMO Listed



✓	Product No.	Description	Carton Quantity	Carton Weight (lbs)
	P9703W	1-½" P-Trap w/ Threaded PVC Adapter with True Blue Premium Washers – White		
	P9703BG	1-½" P-Trap w/ Threaded PVC Adapter & Reversible J-Bend – White, Bagged	25	19.4
	A9703WBG	1-½" P-Trap w/ Threaded PVC Adapter & Reversible J-Bend with True Blue Premium Washers –Black, Bagged	25	19.4
	P9704	1-½" P-Trap w/ Threaded PVC Adapter – White	25	11.8
	A9704	1-½" P-Trap w/ Threaded ABS Adapter – Black	25	11.7
	P9704A	1-½" P-Trap w/ Threaded ABS Adapter – White	25	11.8
	P9704AB	1-½" P-Trap w/ Threaded ABS Adapter – White, Bagged	25	19.2
	P9704BG	1-½" P-Trap w/ Threaded PVC Adapter – White, Bagged	25	19.4
	P9704AWB	1-½" P-Trap w/ Threaded ABS Adapter & Reversible J-Bend with True Blue Premium Washers – White, Bagged	25	19.4
	A9704B	1-½" P-Trap w/ Threaded ABS Adapter – Black, Bagged	25	19.3
	P9704DF	1-½" P-Trap w/ Threaded PVC Adapter & Deep Flange– White	25	12.8
	A9704DF	1-½" P-Trap w/ Threaded ABS Adapter & Deep Flange – Black	25	12.6
	P9704DFB	1-½" P-Trap w/ Threaded PVC Adapter & Deep Flange – White, Bagged	25	21.2
	A9704WB	1-½" P-Trap w/ Threaded ABS Adapter & Reversible J-Bend with True Blue Premium Washers – Black, Bagged	25	19.4



For Residential and Commercial Applications


Job Name		Engineer / Architect	
Job Location		Wholesaler	
Submittal Date		Contractor	

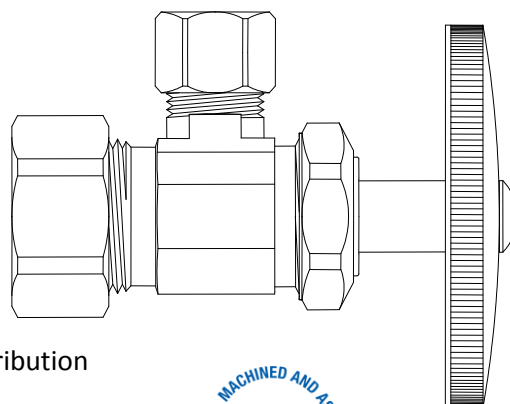
OCR1B/ OCR3B & OCR09/ OCR19/ OCR39/ OCR49

Multi-Turn Angle Stop – Compression x Compression

Use: For use in potable water distribution systems. Not intended for recirculating water systems that produce continuous use temperatures above 115° F. For those applications, use our KT™ series ball stops.

Design Features:

- **Machined one-piece brass body** provides strength, durability, and long-lasting performance
- **Oval knurled handle** provides a secure grip and smooth on/off operation
- **Easy-to-remove handle** with screw attachment helps protect against accidental stop operation during rough-ins
-  **No Lead**
- **For use with** ASTM F876 PEX tubing, in ASTM F877 water distribution systems (parts containing PX and PXX only)
- **For use in** ASTM F877 water distribution systems as noted in Appendixes (parts containing PX and PXX only)



Operating Specifications:

Temperature: 40° - 140° F

Pressure: 125 PSI maximum

Standard

STOP MATERIAL SPECIFICATIONS	
Body	Brass or brass, chrome plated
Stem	POM; brass; or brass, chrome plated
Bib & Packing Washer	Rubber
Packing Nut	Brass or brass, chrome plated
Handle	Zinc die cast, plated; ABS, plated; or Polycarbonate
Handle Screw	Zinc-plated steel
Compression Nut	Brass or brass, chrome plated
Compression Sleeve	Brass
PEX Insert*	Stainless steel

*Where specified

No Lead

STOP MATERIAL SPECIFICATIONS	
Body	No-Lead brass or No-Lead brass, chrome plated
Stem	POM; No-Lead brass; or No-Lead brass, chrome plated
Bib & Packing Washer	Rubber
Packing Nut	Brass or brass, chrome plated
Handle	Zinc die cast, plated; ABS, plated; or Polycarbonate
Handle Screw	Zinc-plated steel
Compression Nut	Brass or brass, chrome plated
Compression Sleeve	Brass
PEX Insert*	Stainless steel

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400.28 OCR09/19/39 Multi-Turn Angle Stop - Compr x Compr REV 08/13

BrassCraft®

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OCR1B/ OCR3B & OCR09/ OCR19/ OCR39/ OCR49

Multi-Turn Angle Stop – Compression x Compression

Standard Part Listing (con't):

<input type="checkbox"/>	OCR39 R1	1/2" nom compression x 1/2" OD compression, rough brass, window box
<input type="checkbox"/>	OCR39Z C	1/2" nom compression x 1/2" OD compression, brass stem, chrome plated
<input type="checkbox"/>	OCR49 C	1/2" nom compression x 5/8" OD compression, chrome plated
<input type="checkbox"/>	OCR49 R	1/2" nom compression x 5/8" OD compression, rough brass
<input type="checkbox"/>	OCR49Z C	1/2" nom compression x 5/8" OD compression, brass stem, chrome plated

No-Lead Part Listing:

<input type="checkbox"/>	OCR09X C	1/2" nom compression x 1/4" OD compression, chrome plated
<input type="checkbox"/>	OCR09X C1	1/2" nom compression x 1/4" OD compression, chrome plated, window box
<input type="checkbox"/>	OCR1BX C	3/8" nom compression x 3/8" OD compression, chrome plated
<input type="checkbox"/>	OCR1BX C1	3/8" nom compression x 3/8" OD compression, chrome plated, window box
<input type="checkbox"/>	OCR3BX C	3/8" nom compression x 1/2" OD compression, chrome plated
<input type="checkbox"/>	OCR09X C	1/2" nom compression x 1/4" OD compression, chrome plated
<input type="checkbox"/>	OCR09X C1	1/2" nom compression x 1/4" OD compression, chrome plated, window box
<input type="checkbox"/>	OCR09X CBT	1/2" nom compression x 1/4" OD compression, chrome plated, bulk
<input type="checkbox"/>	OCR09X R	1/2" nom compression x 1/4" OD compression, rough brass
<input type="checkbox"/>	OCR09ZX C	1/2" nom compression x 1/4" OD compression, brass stem, chrome plated
<input type="checkbox"/>	OCR19X C	1/2" nom compression x 3/8" OD compression, chrome plated
<input type="checkbox"/>	OCR19X C1	1/2" nom compression x 3/8" OD compression, chrome plated, window box
<input type="checkbox"/>	OCR19X R	1/2" nom compression x 3/8" OD compression, rough brass
<input type="checkbox"/>	OCR19X R1	1/2" nom compression x 3/8" OD compression, rough brass, window box
<input type="checkbox"/>	OCR19X BZ	1/2" nom compression x 3/8" OD compression, oil rubbed bronze
<input type="checkbox"/>	OCR19X NP	1/2" nom compression x 3/8" OD compression, polished nickel
<input type="checkbox"/>	OCR19X NS	1/2" nom compression x 3/8" OD compression, satin nickel
<input type="checkbox"/>	OCR19X P	1/2" nom compression x 3/8" OD compression, polished brass
<input type="checkbox"/>	OCR19KL1X CB	1/2" nom compression x 3/8" OD compression, less outlet nut, plastic handle, chrome plated, bulk
<input type="checkbox"/>	OCR19L1X CB	1/2" nom compression x 3/8" OD compression, less outlet nut, chrome plated, bulk
<input type="checkbox"/>	OCR19L1X RB	1/2" nom compression x 3/8" OD compression, less outlet nut, rough brass, bulk
<input type="checkbox"/>	OCR19L4X C100T	1/2" nom compression x 3/8" OD compression, less inlet nut, chrome plated, 100 per case
<input type="checkbox"/>	OCR19PXX C	1/2" nom compression x 3/8" OD compression, PEX stainless steel insert, chrome plated
<input type="checkbox"/>	OCR19PXX R	1/2" nom compression x 3/8" OD compression, PEX stainless steel insert, rough brass
<input type="checkbox"/>	OCR19ZX C	1/2" nom compression x 3/8" OD compression, brass stem, chrome plated
<input type="checkbox"/>	OCR19ZX R	1/2" nom compression x 3/8" OD compression, brass stem, rough brass
<input type="checkbox"/>	OCR29X C	1/2" nom compression x 7/16" OD compression, chrome plated
<input type="checkbox"/>	OCR29X C1	1/2" nom compression x 7/16" OD compression, chrome plated, window box
<input type="checkbox"/>	OCR29X R	1/2" nom compression x 7/16" OD compression, rough brass
<input type="checkbox"/>	OCR39X C	1/2" nom compression x 1/2" OD compression, chrome plated
<input type="checkbox"/>	OCR39X CBT	1/2" nom compression x 1/2" OD compression, chrome plated, bulk
<input type="checkbox"/>	OCR39X C1	1/2" nom compression x 1/2" OD compression, chrome plated, window box
<input type="checkbox"/>	OCR39X R	1/2" nom compression x 1/2" OD compression, rough brass
<input type="checkbox"/>	OCR49X C	1/2" nom compression x 5/8" OD compression, chrome plated

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400.28 OCR09/19/39 Multi-Turn Angle Stop - Compr x Compr REV 08/13

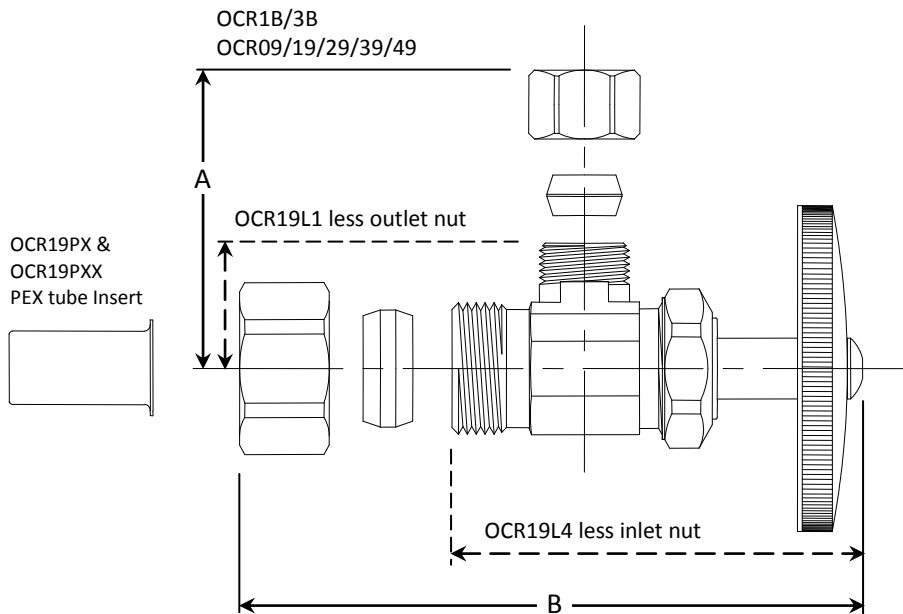
BrassCraft®

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OCR1B/ OCR3B & OCR09/ OCR19/ OCR39/ OCR49

Multi-Turn Angle Stop – Compression x Compression



PART DIMENSIONS (Inches)		
Model	DIM A	DIM B
OCR1B	1.02	2.75
OCR3B	1.11	2.75
OCR09	1.02	2.75
OCR19	1.02	2.75
OCR19K	1.02	2.75
OCR19L1	0.74	2.75
OCR19L4	1.02	2.41
OCR19P	1.02	2.41
OCR19PX	1.02	2.41
OCR29	1.18	2.85
OCR39	1.11	2.85
OCR49	1.18	2.97

Listings & Certifications:

- IAPMO listed to ASME A112.18.1 / CSA B125.1 (File # 0645)
- CSA listed to ASME A112.18.1 / CSA B125.1 (File # 204593)
- No-Lead product CSA listed to Low Lead Content Certification Program – Plumbing Products Class 6853-01



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400.28 OCR09/19/39 Multi-Turn Angle Stop - Compr x Compr REV 08/13

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For Residential and Commercial Applications

Job Name		Engineer / Architect	
Job Location		Wholesaler	
Submittal Date		Contractor	

1-**A/ 3-**A Copper Faucet Riser - One-Piece with Insert

Use: For use in potable water distribution systems in accessible locations only.

Design Features:

- **One-piece** construction
- **Cut-to-Length** for clean, professional installation
- **100% Compliant** 

Operating Specifications:

Temperature: 40° - 180° F

Pressure: 125 PSI maximum

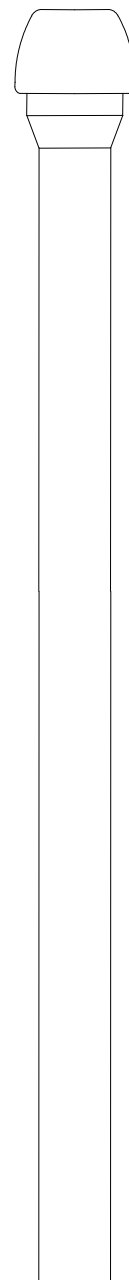
Tubing Diameter: 3/8" OD or 1/2" OD

MATERIAL SPECIFICATIONS

Tube	Copper per ASTM B-68
Insert	POM
Optional Brass Nosepiece	Brass
Optional Cone Washer	Rubber
Optional Brass Ring	Brass

Part Listing:

- | | |
|------------------------------------|---|
| <input type="checkbox"/> 1-12A C | 3/8" OD tube x 11-1/2" length, chrome plated |
| <input type="checkbox"/> 1-12A CBT | 3/8" OD tube x 11-1/2" length, chrome plated, plain package, bulk |
| <input type="checkbox"/> 1-12A C2 | 3/8" OD tube x 11-1/2" length, chrome plated, 2 pack |
| <input type="checkbox"/> 1-12A R | 3/8" OD tube x 11-1/2" length, rough finish |
| <input type="checkbox"/> 1-12A RBT | 3/8" OD tube x 11-1/2" length, rough finish, plain package, bulk |
| <input type="checkbox"/> 1-12A R2 | 3/8" OD tube x 11-1/2" length, rough finish, 2 pack |
| <input type="checkbox"/> 1-12AS C | 3/8" OD tube x 11-1/2" length, brass nosepiece, chrome plated |
| <input type="checkbox"/> 1-12AS R | 3/8" OD tube x 11-1/2" length, brass nosepiece, rough finish |
| <input type="checkbox"/> 1-12A BZP | 3/8" OD tube x 11-1/2" length, oil rubbed bronze, bagged |
| <input type="checkbox"/> 1-12A NPP | 3/8" OD tube x 11-1/2" length, polished nickel, bagged |
| <input type="checkbox"/> 1-12A NSP | 3/8" OD tube x 11-1/2" length, satin nickel, bagged |
| <input type="checkbox"/> 1-15A C | 3/8" OD tube x 14-1/2" length, chrome plated |
| <input type="checkbox"/> 1-15A CBT | 3/8" OD tube x 14-1/2" length, chrome plated, plain package, bulk |
| <input type="checkbox"/> 1-15A C2 | 3/8" OD tube x 14-1/2" length, chrome plated, 2 pack |
| <input type="checkbox"/> 1-15A R | 3/8" OD tube x 14-1/2" length, rough finish |
| <input type="checkbox"/> 1-15A RBT | 3/8" OD tube x 14-1/2" length, rough finish, plain |



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400.200 1-**A/ 3-**A Copper Faucet Riser - One-Piece with Insert REV 10/12

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Product Submittal Form 4342

1-**A/ 3-**A Copper Faucet Riser - One-Piece with Insert

Part Listing (con't):

<input type="checkbox"/>	1-20A C	3/8" OD tube x 19-1/2" length, chrome plated
<input type="checkbox"/>	1-20A CBT	3/8" OD tube x 19-1/2" length, chrome plated, plain package, bulk
<input type="checkbox"/>	1-20A CF	3/8" OD tube x 19-1/2" length, chrome plated, flag label
<input type="checkbox"/>	1-20A C2	3/8" OD tube x 19-1/2" length, chrome plated, 2 pack
<input type="checkbox"/>	1-20A R	3/8" OD tube x 19-1/2" length, rough finish
<input type="checkbox"/>	1-20A RBT	3/8" OD tube x 19-1/2" length, rough finish, plain package, bulk
<input type="checkbox"/>	1-20A R2	3/8" OD tube x 19-1/2" length, rough finish, 2 pack
<input type="checkbox"/>	1-20AS C	3/8" OD tube x 19-1/2" length, brass nosepiece, chrome plated
<input type="checkbox"/>	1-20AS R	3/8" OD tube x 19-1/2" length, brass nosepiece, rough finish
<input type="checkbox"/>	1-20A BZP	3/8" OD tube x 19-1/2" length, oil rubbed bronze, bagged
<input type="checkbox"/>	1-20A NPP	3/8" OD tube x 19-1/2" length, polished nickel, bagged
<input type="checkbox"/>	1-20A NSP	3/8" OD tube x 19-1/2" length, satin nickel, bagged
<input type="checkbox"/>	1-20A PP	3/8" OD tube x 19-1/2" length, polished brass, bagged
<input type="checkbox"/>	1-30A C	3/8" OD tube x 29-1/2" length, chrome plated
<input type="checkbox"/>	1-30A CBT	3/8" OD tube x 29-1/2" length, chrome plated, plain package, bulk
<input type="checkbox"/>	1-30A C2	3/8" OD tube x 29-1/2" length, chrome plated, 2 pack
<input type="checkbox"/>	1-30A R	3/8" OD tube x 29-1/2" length, rough finish
<input type="checkbox"/>	1-30A RBT	3/8" OD tube x 29-1/2" length, rough finish, plain package, bulk
<input type="checkbox"/>	1-30A R2	3/8" OD tube x 29-1/2" length, rough finish, 2 pack
<input type="checkbox"/>	1-30AS C	3/8" OD tube x 29-1/2" length, brass nosepiece, chrome plated
<input type="checkbox"/>	1-30AS R	3/8" OD tube x 29-1/2" length, brass nosepiece, rough finish
<input type="checkbox"/>	1-30A BZP	3/8" OD tube x 29-1/2" length, oil rubbed bronze, bagged
<input type="checkbox"/>	1-30A NSP	3/8" OD tube x 29-1/2" length, satin nickel, bagged
<input type="checkbox"/>	1-30A PP	3/8" OD tube x 29-1/2" length, polished brass, bagged
<input type="checkbox"/>	1-36A C	3/8" OD tube x 35-1/2" length, chrome plated
<input type="checkbox"/>	1-36A CBT	3/8" OD tube x 35-1/2" length, chrome plated, plain package, bulk
<input type="checkbox"/>	1-36A C2	3/8" OD tube x 35-1/2" length, chrome plated, 2 pack
<input type="checkbox"/>	1-36A R	3/8" OD tube x 35-1/2" length, rough brass
<input type="checkbox"/>	1-36A RBT	3/8" OD tube x 35-1/2" length, rough brass, plain package, bulk
<input type="checkbox"/>	1-36A R2	3/8" OD tube x 35-1/2" length, rough brass, 2 pack
<input type="checkbox"/>	1-36AS C	3/8" OD tube x 35-1/2" length, brass nosepiece, chrome plated
<input type="checkbox"/>	3-12A C	1/2" OD tube x 11-1/2" length, chrome plated
<input type="checkbox"/>	3-12A CBT	1/2" OD tube x 11-1/2" length, chrome plated, plain package, bulk
<input type="checkbox"/>	3-12A C2	1/2" OD tube x 11-1/2" length, chrome plated, 2 pack
<input type="checkbox"/>	3-12A R	1/2" OD tube x 11-1/2" length, rough finish
<input type="checkbox"/>	3-12A R2	1/2" OD tube x 11-1/2" length, rough brass, 2 pack
<input type="checkbox"/>	3-20A C	1/2" OD tube x 19-1/2" length, chrome plated
<input type="checkbox"/>	3-20A CBT	1/2" OD tube x 19-1/2" length, chrome plated, plain package, bulk
<input type="checkbox"/>	3-20A C2	1/2" OD tube x 19-1/2" length, chrome plated, 2 pack

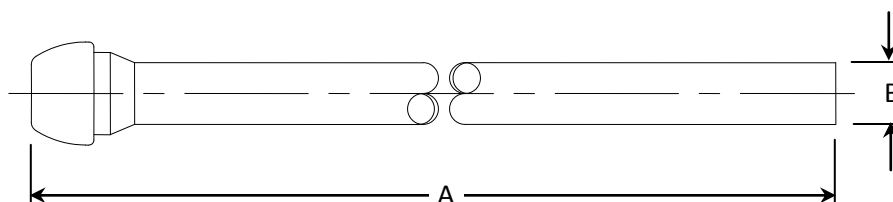
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1-**A/ 3-**A Copper Faucet Riser - One-Piece with Insert

Part Listing (con't):

<input type="checkbox"/>	3-20A R	1/2" OD tube x 19-1/2" length, rough finish
<input type="checkbox"/>	3-20A RBT	1/2" OD tube x 19-1/2" length, rough finish, plain package, bulk
<input type="checkbox"/>	3-30A C	1/2" OD tube x 29-1/2" length, chrome plated
<input type="checkbox"/>	3-30A RBT	1/2" OD tube x 29-1/2" length, rough finish, plain package, bulk
<input type="checkbox"/>	3-30A C2	1/2" OD tube x 29-1/2" length, chrome plated, 2 pack
<input type="checkbox"/>	3-30A R	1/2" OD tube x 29-1/2" length, rough finish
<input type="checkbox"/>	3-36A C	1/2" OD tube x 35-1/2" length, chrome plated
<input type="checkbox"/>	3-36A CBT	1/2" OD tube x 35-1/2" length, chrome plated, plain package, bulk
<input type="checkbox"/>	3-36A C2	1/2" OD tube x 35-1/2" length, chrome plated, 2 pack
<input type="checkbox"/>	3-36A R	1/2" OD tube x 35-1/2" length, rough brass
<input type="checkbox"/>	3-36C C	1/2" OD tube x 35-1/2" length, cone washer & brass ring, chrome plated



PART DIMENSIONS (Inches)		
Model	DIM. A	DIA. B
1-12A	11.63	3/8
1-12AS	11.63	3/8
1-15A	14.63	3/8
1-20A	19.63	3/8
1-20A	19.63	3/8
1-30A	29.63	3/8
1-30AS	29.63	3/8

PART DIMENSIONS (Inches)		
Model	DIM. A	DIA. B
1-36A	35.63	3/8
1-36AS	35.63	3/8
3-12A	11.56	1/2
3-20A	19.56	1/2
3-30A	29.56	1/2
3-36A	35.56	1/2
3-36C	35.56	1/2

Listings & Certifications:

- IAPMO listed to ASME A112.18.1 / CSA B125.1 (File # 0645)
- CSA listed to ASME A112.18.1 / CSA B125.1 (File # 204593)
- Compliant product CSA listed to Low Lead Content Certification Program – Plumbing Prouducts Class 6853-01



This specification and all information contained herein is the confidential and exclusive property of BrassCraft Manufacturing, and shall not be disclosed to others without the written consent of BrassCraft Mfg. This specification must be returned to BrassCraft Mfg if requested.



WILKINS
a ZURN company**HJC 809210****Model ZW3870XLT**
Aqua-Gard Thermostatic Mixing Valve
SPECIFICATION SUBMITTAL SHEET**FEATURES**

Sizes: □ 3/8"

Chrome Plated

Outlet Temp. Range

Temperature Hot Supply

95-115°F (35-46°C)

120-195°F max.

(49-90.5°C)

Temperature Cold Supply

40-75°F (4.4-23.8°C)

Set Temperature Accuracy

± 3°F (1.78°C)

Max. Working Pressure (inlet)

145 psi

Temperature must be field set

Max. Pressure Differential is 15 psi between Hot & Cold inlets

Flow rate @ 45 psi pressure loss 3.10 gpm

Min. Flow Rate

0.5 gpm

ZW3870XLT 3 PORT (1 Hot in, 1 Cold in, 1 Mixed out)

ZW3870XLT-4P 4 PORT (1 Hot in, 1 Cold in, 1 Cold out,
1 Mixed out.)**APPLICATION**

Ideal for use where lead free valves are required. The Wilkins Model ZW3870XLT Aqua-Gard Thermostatic mixing valve is designed to be installed at the point of use under sinks and sensor faucets to assist in the prevention of scalding. The valve's rapid response and precise temperature control meet the stringent standards of ASSE 1070 listed for fixtures, sinks, lavatories or bathtubs. The ZW3870XLT will mix hot and cold water from the distribution system to a final safer temperature outlet range of 95-115°F (35-46°C). The 3/8" compression fittings make this valve ideal for residential and commercial applications.

STANDARDS COMPLIANCE

- ASSE® Listed 1070

- CSA® Certified

LEAD PLUMBING LAW COMPLIANCE

(0.25% MAX. WEIGHTED AVERAGE LEAD CONTENT)

- Lead Plumbing Law Certified by IAPMO R&T

MATERIALS

Body

Bronze JIS H5120

CAC902 w/chrome plating

ASTM B 456 Service Condition #2

ASTM B 371 UNS C69300

Internal brass

Piston

Polysulfone

Guide Tube

Noryl GFN2

Spring

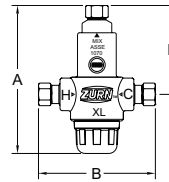
300 Series Stainless Steel

Seals

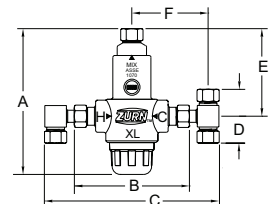
Viton

Checks

Acetal Co-Polymer



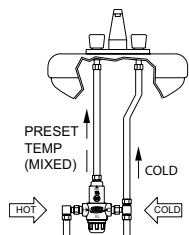
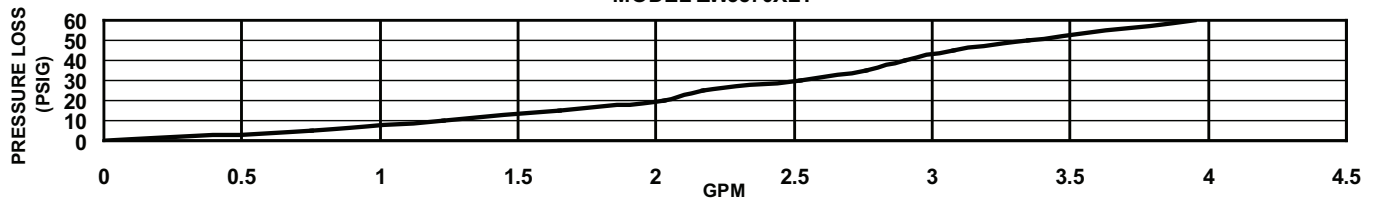
ZW3870XLT



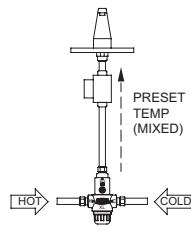
ZW3870XLT-4P

DIMENSIONS & WEIGHTS (do not include pkg.)

SIZE		MODEL	DIMENSIONS (approximate)										WEIGHT	
			A		B		C		D		E		F	
in.	mm		in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm
3/8	9.5	ZW3870XLT	4 27/32	123	4 3/16	106.3	5 55/64	149	2 1/32	52	2 27/32	72.2	2 1/2	64
													1.2	.6

FLOW CHARACTERISTIC**MODEL ZW3870XLT****INDIVIDUAL
USE**

ZW3870XLT-4P

**SINGLE
USE**

ZW3870XLT

PIPING INSTRUCTIONS

The device is designed to be installed at a single outlet. It may be used to supply individual outlets when there is sufficient supply pressure. It is suggested to use ball valves on the hot and cold inlet supplies.

DOCUMENT #: TMV-ZW3870XLT

REVIS 1/10

WILKINS a Zurn company, 1747 Commerce Way, Paso Robles, CA 93446 Phone: 805/238-7100 Fax: 805/238-
In Canada: ZURN INDUSTRIES LIMITED, 3544 Nashua Dr., Mississauga, Ontario L4V 1L2 Phone: 905/405-8272 Fax: 905/405-
Product Support Help Line: 1-877-BACKFLOW (1-877-222-5356) • Website: <http://www.zurn>



338798

Submittal Sheet

ADA-compliant undersink protection



General Description:

MAINLINE® EZ Series waste and supply piping covers satisfy ADA compliance requirements. Built-in *EZ Grip* internal fasteners and internal, *EZ Tear-To-Fit* trimming feature allow for fast installation without tools. MAINLINE® cover kits are designed to fit on all tubular and cast brass P-trap assemblies. Valve cover completely encloses angle valve and supply tube for both handled and keyed type water stops.

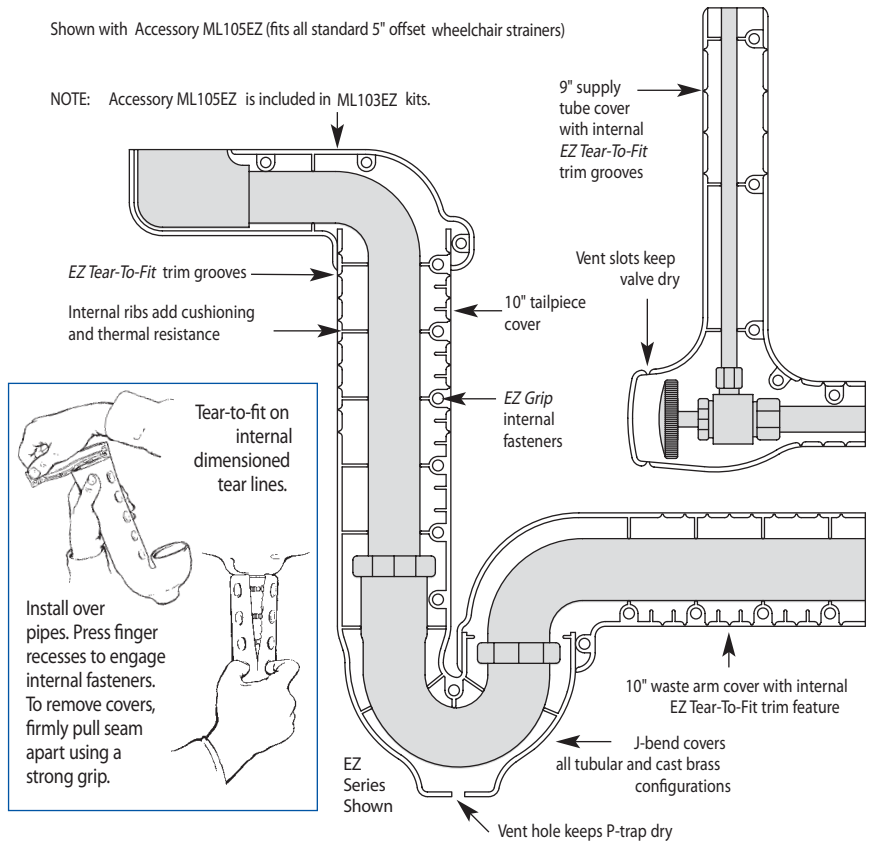
Material	Molded vinyl
Nominal Wall	1/8" constant
Durometer	70 - 80 - Shore A
UV Protection	Will not fade or discolor
Durability	Virtually indestructible
Trimming (EZ Series)	Internal EZ Tear-To-Fit trim feature
Fasteners (EZ Series)	Internal EZ Grip fasteners (reusable)
Color	China white
Paintability	Apply Latex paint
Burning Characteristics ASTM D-635	Self extinguished 0 sec (ATB) 0 mm (AEB)
Bacteria/Fungus Resistance	ASTM G21 and G22/ Result: 0 growth
Maintenance	Use common detergents

Manufactured under one or more of the following U.S. or Canadian patents.
Other patents pending.
5,303,730 5,360,031 5,524,669 5,564,463 5,678,598 5,699,828 5,915,412
5,915,413 5,901,739 5,960,820 2,075,324 2,119,427 2,136,027 2,158,083



Shown with Accessory ML105EZ (fits all standard 5" offset wheelchair strainers)

NOTE: Accessory ML105EZ is included in ML103EZ kits.



#100 E-Z Series (shown above right) for tubular and cast brass P-trap assemblies.

- ☐ **Model ML101EZ**
One P-trap cover, one angle valve and supply covers
- ☐ **Model ML102EZ**
One P-trap cover, two angle valve and supply covers
- ☐ **Model ML103EZ**
One P-trap cover, two angle valve and supply covers, one 5" offset wheelchair strainer cover
- ☐ **Model ML105EZ**
One 5" offset wheelchair strainer cover



Job/Location _____

Designer _____

MAINLINE® reserves the right to make product and material changes at any time without notice.



291939

U-1





BARDON™ 1/8th GPF

HIGH EFFICIENCY URINAL (HEU) K-4904-ET

Features

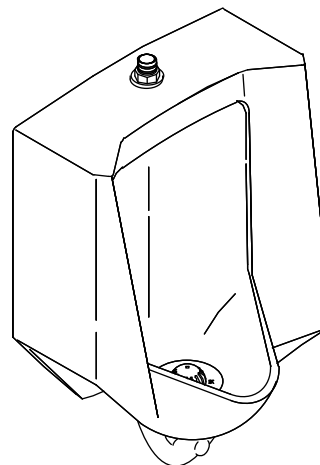
- Vitreous china
- Washout
- 3/4" top spud
- 14" (356 mm) extended rim
- 0.125 gpf (0.47 lpf) to 1.0 gpf (3.8 lpf)
- WaterSense® compliant when used with WaterSense flushometer
- Will replace K-4960-ET urinal



Codes/Standards Applicable

Specified model meets or exceeds the following:

- ADA
- ICC/ANSI A117.1
- ASME A112.19.2/CSA B45.1
- EPA WaterSense®



Colors/Finishes

- 0: White
- Other: Refer to Price Book for additional colors/finishes

Accessories

- CP: Polished Chrome

Specified Model

Model	Description	Colors/Finishes	
K-4904-ET	High Efficiency Urinal (HEU) with 3/4" top spud	<input checked="" type="checkbox"/> 0	<input type="checkbox"/> Other _____

Recommended Accessories

K-10668	WAVE DC flushometer – 0.125 gpf (0.47 lpf)	<input type="checkbox"/> CP
K-10949	Touchless DC urinal flushometer with TriPoint™ technology – 0.125 gpf (0.47 lpf)	<input type="checkbox"/> CP
K-13520	Manual washdown urinal flushometer – 0.125 gpf (0.47 lpf)	<input type="checkbox"/> CP
K-10675	WAVE DC flushometer - 0.5 gpf (1.9 lpf)	<input type="checkbox"/> CP
K-10958	Touchless DC urinal flushometer with TriPoint technology - 0.5 gpf (1.9 lpf)	<input type="checkbox"/> CP
K-13519	Manual washdown urinal flushometer - 0.5 gpf (1.9 lpf)	<input type="checkbox"/> CP
K-10676	WAVE DC flushometer - 1.0 gpf (3.8 lpf)	<input type="checkbox"/> CP
K-10960	Touchless DC flushometer with TriPoint technology - 1.0 gpf (3.8 lpf)	<input type="checkbox"/> CP
K-13518	Manual washdown urinal flushometer - 1.0 gpf (3.8 lpf)	<input type="checkbox"/> CP

Product Specification

The washout urinal shall be made of vitreous china with a 3/4" top spud. Urinal shall have a 14" (356 mm) extended rim. Urinal shall use 0.125 gpf (0.47 lpf) to 1.0 gpf (3.8 lpf) depending on flushometer specified. Urinal shall be WaterSense compliant when used with WaterSense flushometer. Urinal shall be Kohler Model K-4904-ET-_____.



BARDON™ 1/8th GPF

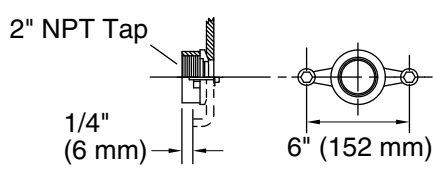
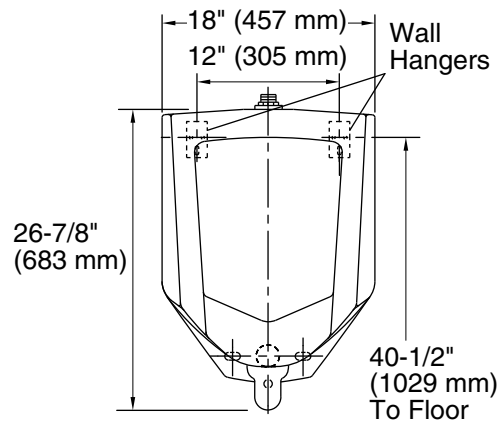
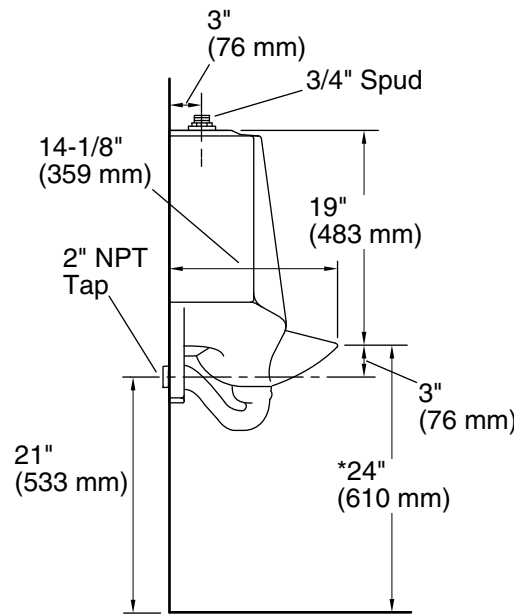
Technical Information

Fixture:	
Configuration	3/4" top spud urinal
Water per flush	0.125 gpf (0.47 lpf) to 1.0 gpf (3.8 lpf)*
Spud inlet size	3/4"
* Designed to flush with 0.125 gpf (0.47 lpf) to 1.0 gpf (3.8 lpf) of water when installed with a water-saving flushometer.	
Included components:	
3/4" inlet spud	18376
2" outlet spud	18766
Strainer	85061
Hanger (2 required)	64512

Installation Notes

Install this product according to the installation guide.
Refer to manufacturer's instructions and local codes for flushometer requirements.
Will comply with **ADA** when installed per Section 605 Urinals of the ADA 2010 Standards for Accessible Design.

*Urinal complies with ADA requirements when rim is mounted no higher than 17" (432 mm) from finished floor.

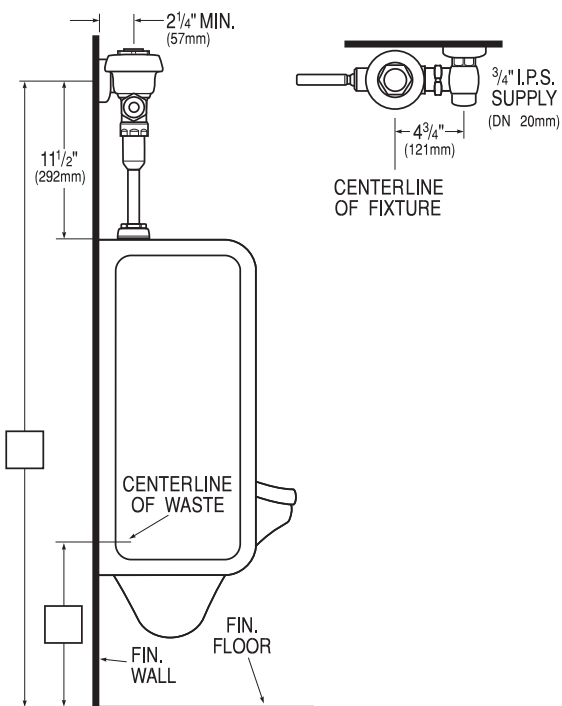


Outlet Detail

Product Diagram



243286



Royal® Model Flushometer

186



Description

Exposed Urinal Flushometer, for 3/4" top spud urinals.

Flush Cycle

☒ Model 186-0.125 (0.125 gpf/0.5 Lpf)

☐ Model 186-0.25 (0.25 gpf/1.0 Lpf)

☐ Model 186-0.5 (0.5 gpf/1.9 Lpf)

Specifications

Quiet, Exposed, Diaphragm Type, Chrome Plated Urinal Flushometer with the following features:

- For Flushing Volumes 0.125 and 0.25: Dual Linear Filtered Bypass Diaphragm
- For Flushing Volume 0.5: Dual Filtered Bypass Diaphragm
- ADA Compliant Metal Oscillating Non-Hold-Open Handle with Triple Seal Handle Packing
- 3/4" I.P.S. Screwdriver Bak-Chek® Angle Stop
- Free Spinning Vandal Resistant Stop Cap
- Adjustable Tailpiece
- High Back Pressure Vacuum Breaker Flush Connection with One-piece Bottom Hex Coupling Nut
- Spud Coupling and Flange for 3/4" Top Spud
- Sweat Solder Adapter w/Cover Tube & Cast Wall Flange w/Set Screw
- High Copper, Low Zinc Brass Castings for Dezincification Resistance
- Non-Hold-Open Handle, Fixed Metering Bypass and No External Volume Adjustment to Ensure Water Conservation
- Flush Accuracy Controlled by CID Technology
- Diaphragm, Handle Packing, Stop Seat and Vacuum Breaker molded from PERMEX® Rubber Compound for Chloramine Resistance

Valve Body, Cover, Tailpiece and Control Stop shall be in conformance with ASTM Alloy Classification for Semi-Red Brass. Valve shall be in compliance to the applicable sections of ASSE 1037 and ANSI/ASME A112.19.2.

Variations

☐ **HL-3** 3" Metal Oscillating Push Button on front of valve
(does not meet ADA requirements)

☐ **SG** SaniGuard® Antimicrobial Handle and Socket

Accessories

See Accessories Section of the Sloan catalog for details on these and other Flushometer variations.

Fixtures

Consult Sloan for Sloan brand matching fixture options.



This space for Architect/Engineer approval

Job Name _____ Date _____

Model Specified _____ Quantity _____

Variations Specified _____

Customer/Wholesaler _____

Contractor _____

Architect _____

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A C C E S S O R I E S



Split Ring Pipe Support J-312-A



Solid Ring Pipe Support J-212-A



Solid Ring Pipe Support with Seat Bumper J-112-A

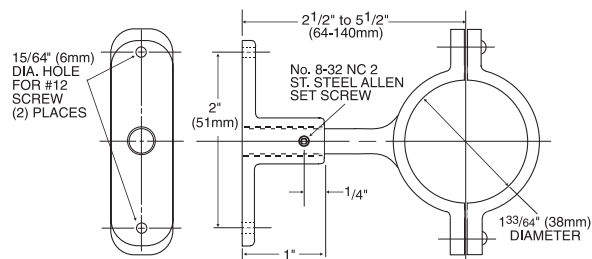
Pipe Supports

Pipe supports can be used with Sloan Flushometers to help secure the installation. Ideal for use in high vandalism installations, particularly when high rough-in valves have been installed. Pipe supports are designed to accommodate a 1½" diameter tube (when used with a urinal Flushometer Model, install at the top of the Vacuum Breaker Tube).

► Split Ring Pipe Support J-312-A

□ YJ Variation

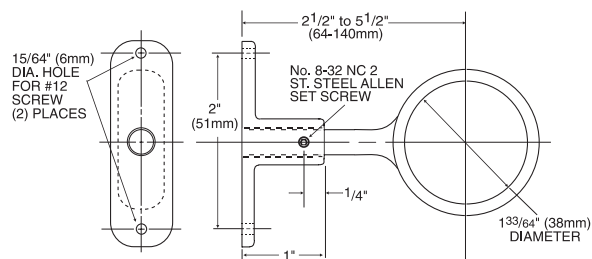
Chrome Plated, Split Ring Pipe Support with adjustable telescoping feature for accurate installation. For existing as well as new Flushometers.



► Solid Ring Pipe Support J-212-A

□ YK Variation

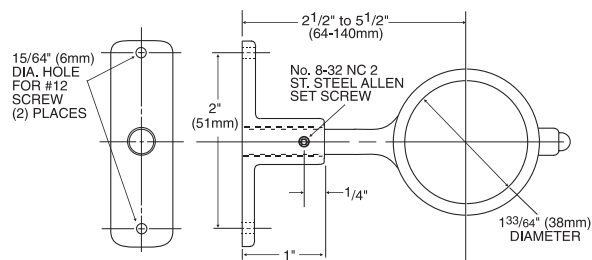
Chrome Plated, Solid Ring Pipe Support with adjustable telescoping feature for accurate installation. For new Flushometers.



► Solid Ring Pipe Support with Seat Bumper J-112-A

□ YL Variation

Chrome Plated, Solid Ring Pipe Support with adjustable telescoping feature for accurate installation. Seat Bumper protects flush tube as well as toilet seat.



This space for Architect/Engineer approval

Job Name _____ Date _____

Model Specified _____ Quantity _____

Variations Specified _____

Customer/Wholesaler _____

Contractor _____

Architect _____

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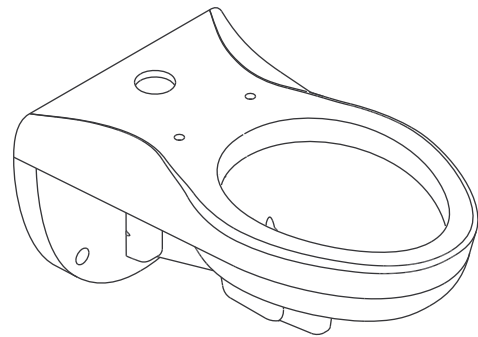
WC-1




KINGSTON™

Features

- Vitreous china
- Elongated bowl
- Siphon jet
- Wall-mount
- With bedpan lugs (-L)
- 1-1/2" top spud
- 1.28 gpf (4.8 lpf) or 1.6 gpf (6 lpf) depending on flushometer specified
- 10-1/2" (267 mm) x 9" (229 mm) water area
- 26-1/2" (673 mm) x 16-1/2" (419 mm) x 13-1/4" (337 mm)
- Will replace K-4330 and K-4330-L bowls

**BOWL
K-4325**
ADA
TAS
CSA B651
OBC


Codes/Standards Applicable

Specified model meets or exceeds the following:

- **ADA**
- **ICC/ANSI A117.1**
- **TAS**
- **CSA B651**
- **OBC**
- **ASME A112.19.2/CSA B45.1**
- **Energy Policy Act of 1992**

Colors/Finishes

- 0: White
- CP: Polished Chrome
- Other: Refer to Price Book for additional colors/finishes

Specified Model

Model	Description	Colors/Finishes	
K-4325	Bowl – elongated	<input checked="" type="checkbox"/> 0	<input type="checkbox"/> Other _____
K-4325-L	Bowl – elongated, with bedpan lugs	<input type="checkbox"/> 0	<input type="checkbox"/> Other _____

Recommended Accessories

K-4731-C	Stronghold® open-front elongated seat	<input type="checkbox"/> 0	<input type="checkbox"/> Other _____	
K-4731-SC	Stronghold open-front elongated seat with integrated handle	<input type="checkbox"/> 0	<input type="checkbox"/> Other _____	
K-4731-GC	Stronghold Quiet-Close™ open-front elongated seat	<input type="checkbox"/> 0	<input type="checkbox"/> Other _____	
K-10673	WAVE exposed toilet flushometer – 1.28 gpf (4.8 lpf)			<input type="checkbox"/> CP
K-10956	Touchless DC toilet flushometer – 1.28 gpf (4.8 lpf)			<input type="checkbox"/> CP
K-13517	Manual toilet flushometer – 1.28 gpf (4.8 lpf)			<input type="checkbox"/> CP
K-10674	WAVE exposed toilet flushometer - 1.6 gpf (6 lpf)			<input type="checkbox"/> CP
K-10957	Touchless DC toilet flushometer - 1.6 gpf (6 lpf)			<input type="checkbox"/> CP
K-13516	Manual toilet flushometer - 1.6 gpf (6 lpf)			<input type="checkbox"/> CP

Product Specification

The elongated bowl shall be made of vitreous china. Bowl shall be 26-1/2" (673 mm) in length, 16-1/2" (419 mm) in width, and 13-1/4" (337 mm) in height. The bowl shall be wall-mount with a 1-1/2" top spud. Bowl shall have siphon jet. Bowl shall have bedpan lugs (-L). Bowl shall feature 1.28 gpf (4.8 lpf) or 1.6 gpf (6 lpf) depending on flushometer specified. Bowl shall have 10-1/2" (267 mm) x 9" (229 mm) water area. Bowl shall be Kohler Model K-4325-_____ or K-4325-L-_____.



237569

KINGSTON™

Technical Information

Fixture:	
Configuration	Top spud, elongated
Water per flush	1.28 gal (4.8 L) or 1.6 gal (6 L)*
Spud size	1-1/2"
Passageway	2-1/8" (54 mm)
Water area	10-1/2" (267 mm) x 9" (229 mm)
Water depth from rim	5-1/4" (133 mm)
Seat post hole centers	5-1/2" (140 mm)
Minimum static pressure required	35 psi (241.3 kPa)
Maximum static pressure	80 psi (551.6 kPa)
Minimum flowing pressure required	25 psi (172.4 kPa)
Required supply minimum	25 gal/min (94.6 l/min)
* Based upon use of a 1.28 gal (4.8 L) or 1.6 gal (6 L) flushometer valve.	

Included component: Spud

18357

Installation Notes

Install this product according to the installation guide. Refer to manufacturer's instructions and local codes for flushometer requirements.

For back-to-back toilet installations: Use only a 45° double wye fitting.

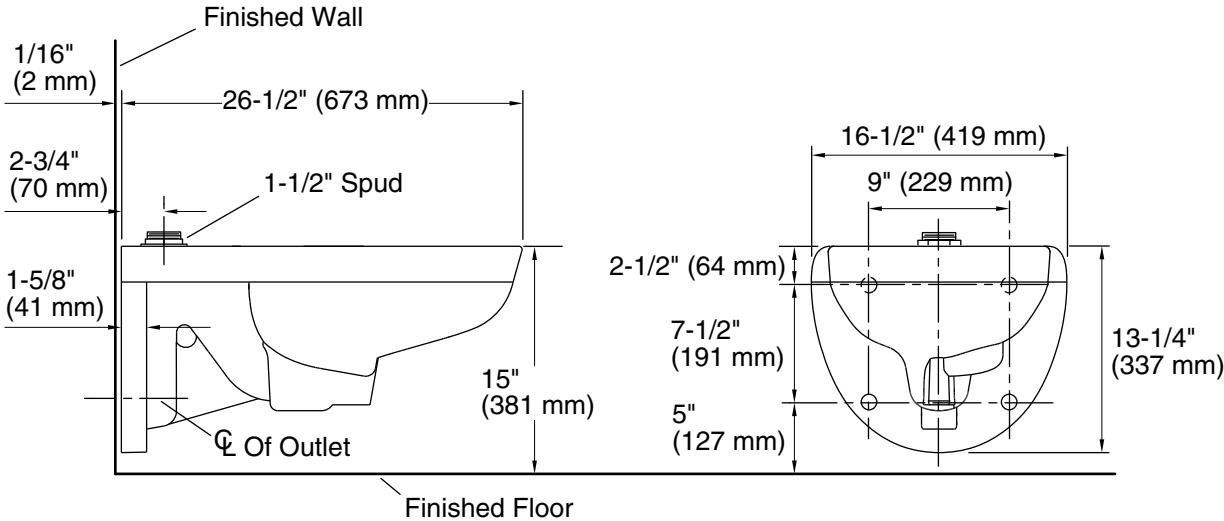
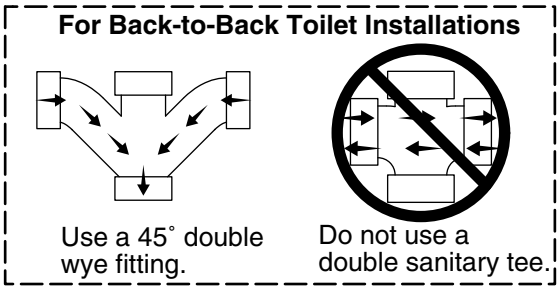
Will comply with the American Disabilities Act (**ADA**) when installed per the requirements of the Accessibility Guidelines, Section 604 Water Closets, of the Act. The Model Plumbing Codes require the installation of elongated open-front toilet seats in public bathrooms.

For **TAS** compliance the required seating height with the toilet seat installed is: Adults – 17" (432 mm) to 19" (483 mm) Children (Elementary Grade Levels 6 through 8 or 9) – 15" (381 mm) to 17" (432 mm)

Will comply with **CSA B651** when installed per Clause 4.3.6 of the standard.

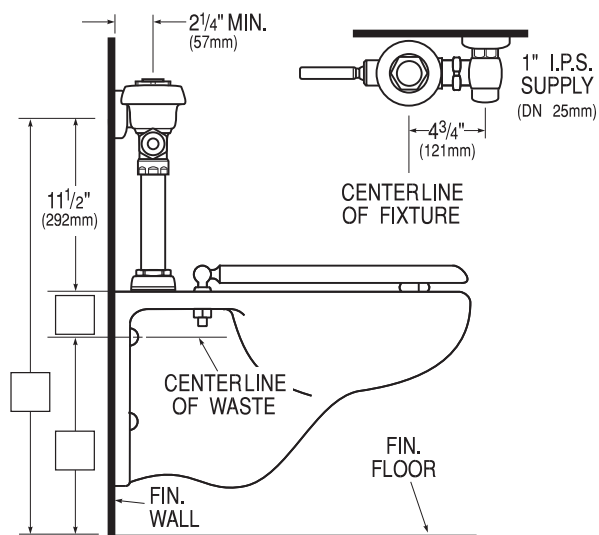
Will comply with **OBC** Barrier Free requirements when installed per Clause 3.8.3.8 and 3.8.3.9.

237569



Product Diagram





Royal® Model Flushometer

111-1.28

Description

Exposed Water Closet Flushometer, for floor mounted or wall hung top spud bowls.

Flush Cycle

Model 111-1.28 High Efficiency (1.28 gpf/4.8 Lpf)

Specifications

Quiet, Exposed, Diaphragm Type, Chrome Plated Closet Flushometer for left or right hand supply with the following features:

- PERMEX™ Synthetic Rubber Diaphragm with Dual Filtered Fixed Bypass
- ADA Compliant Metal Oscillating Non-Hold-Open Handle with Triple Seal Handle Packing
- 1" I.P.S. Screwdriver Bak-Chek® Angle Stop
- Free Spinning Vandal Resistant Stop Cap
- Adjustable Tailpiece
- High Back Pressure Vacuum Breaker Flush Connection with One-piece Bottom Hex Coupling Nut
- Spud Coupling and Flange for 1½" Top Spud
- Sweat Solder Adapter w/Cover Tube & Cast Wall Flange w/Set Screw
- High Copper, Low Zinc Brass Castings for Dezincification Resistance
- Non-Hold-Open Handle, Fixed Metering Bypass and No External Volume Adjustment to Ensure Water Conservation
- Flush Accuracy Controlled by CID™ Technology
- Diaphragm, Handle Packing, Stop Seat and Vacuum Breaker molded from PERMEX™ Rubber Compound for Chloramine Resistance

Valve Body, Cover, Tailpiece and Control Stop shall be in conformance with ASTM Alloy Classification for Semi-Red Brass. Valve shall be in compliance to the applicable sections of ASSE 1037.

Variations

- ☐ **XV** Valve Less Vacuum Breaker
- ☐ **SG** SaniGuard® Antimicrobial Handle and Socket

Accessories

See Accessories Section of the Sloan catalog for details on these and other Flushometer variations.

Fixtures

Consult Sloan for Sloan brand matching fixture options.



Made In The
USA



This space for Architect/Engineer approval

Job Name _____ Date _____

Model Specified _____ Quantity _____

Variations Specified _____

Customer/Wholesaler _____

Contractor _____

Architect _____

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A C C E S S O R I E S



Split Ring Pipe Support J-312-A



Solid Ring Pipe Support J-212-A



Solid Ring Pipe Support with Seat Bumper J-112-A

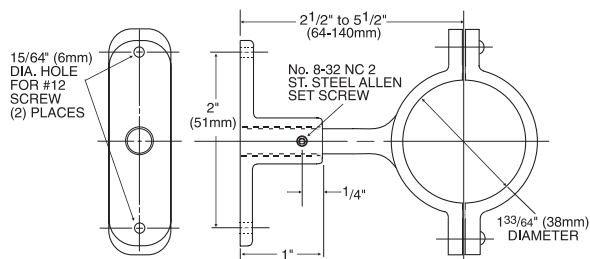
Pipe Supports

Pipe supports can be used with Sloan Flushometers to help secure the installation. Ideal for use in high vandalism installations, particularly when high rough-in valves have been installed. Pipe supports are designed to accommodate a 1½" diameter tube (when used with a urinal Flushometer Model, install at the top of the Vacuum Breaker Tube).

► Split Ring Pipe Support J-312-A

□ YJ Variation

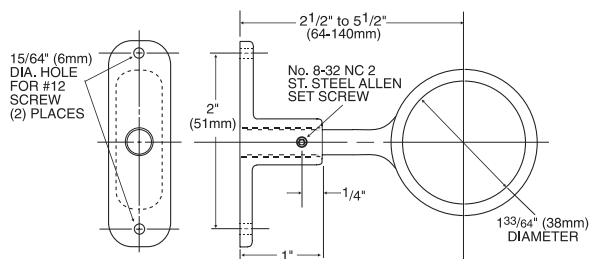
Chrome Plated, Split Ring Pipe Support with adjustable telescoping feature for accurate installation. For existing as well as new Flushometers.



► Solid Ring Pipe Support J-212-A

□ YK Variation

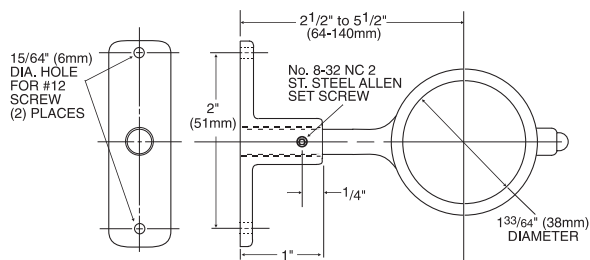
Chrome Plated, Solid Ring Pipe Support with adjustable telescoping feature for accurate installation. For new Flushometers.



► Solid Ring Pipe Support with Seat Bumper J-112-A

□ YL Variation

Chrome Plated, Solid Ring Pipe Support with adjustable telescoping feature for accurate installation. Seat Bumper protects flush tube as well as toilet seat.



This space for Architect/Engineer approval

Job Name _____ Date _____

Model Specified _____ Quantity _____

Variations Specified _____

Customer/Wholesaler _____

Contractor _____

Architect _____

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COMMERCIAL HEAVY-DUTY PLASTIC TOILET SEAT

MODEL #

COLOR #

1955CT/1955SSCT **WHITE**

DESCRIPTION:

Open front less cover, elongated, heavy-duty, injection molded solid plastic toilet seat. Features four molded-in bumpers, non self-sustaining (1955CT) or self-sustaining (1955SSCT) check hinges with non-corrosive 300 Series stainless steel posts and pintles and STA-TITE® Commercial Fastening System™. This seat complies with American National Standard Z124.5 Toilet (Water Closet) Seats as a class Commercial Heavy Duty.

SPECIFICATIONS:

Size: Elongated
 Material: Plastic
 Style: Open Front less Cover
 Bumpers: Four
 Hinges: Plastic Non Self-Sustaining (1955CT) or Self-Sustaining (1955SSCT) with 300 Series Stainless Steel Posts and Pintles

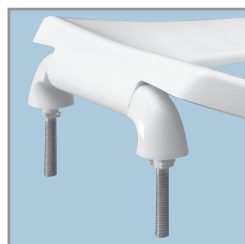
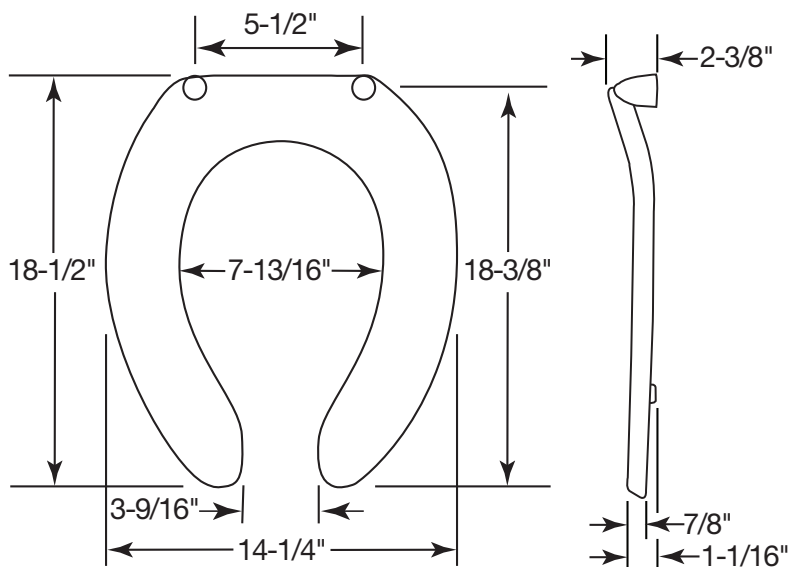
Fastening System: STA-TITE® Commercial Fastening System™

FEATURES:

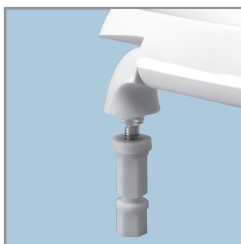
STA-TITE® Commercial Fastening System™

Non-Corrosive 300 Series Stainless Steel Posts and Pintles

DIMENSIONS:



PLASTIC HINGES WITH
STAINLESS STEEL POSTS
AND PINTLES



STA-TITE® COMMERCIAL
FASTENING SYSTEM™



Proudly Made in the USA

Bemis Manufacturing Co., Sheboygan Falls, WI 53085
www.ToiletSeats.com

Phone: 920-467-4621 | 800-558-7651 Fax: 920-467-8573

227849





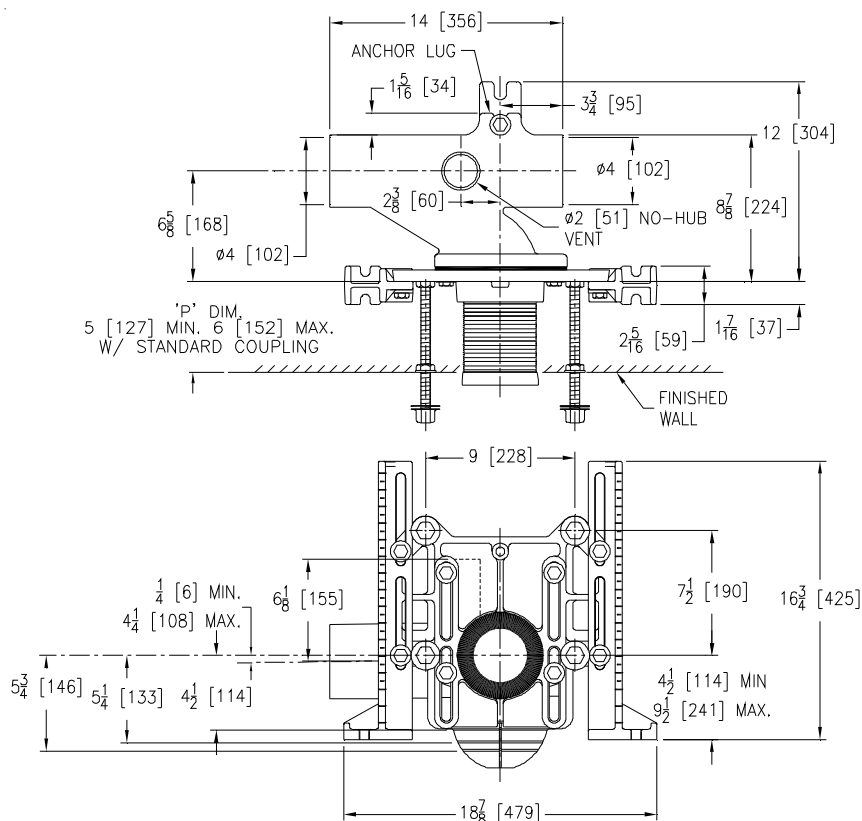
Z1203-N

ADJUSTABLE HORIZONTAL SIPHON JET NO-HUB

SPECIFICATION SHEET

TAG

Dimensional Data (inches and [mm]) are Subject to Manufacturing Tolerances and Change Without Notice



Product Number	Approx. Wt. Lbs. [kg]
Z1203-NL4	67 [30]
Z1203-NR4	

Note:

1. Min. 'P' Dim. Obtainable=2 [51]
2. Feet bolted to floor using min. 1/2 [13] dia. bolts and back slots on carrier feet.
3. Back anchor foot required for secure installation.

ENGINEERING SPECIFICATION: ZURN Z1203-N() Adjustable, horizontal siphon jet water closet "Rigid System" with 4 [102] No-Hub connections. Complete with Dura-Coated cast iron right hand, left hand, or double main fitting, with 2 [51] vent, adjustable gasketed faceplate, universal floor mounted foot supports, corrosion resistant adjustable ABS coupling with integral test cap, fixture bolts, trim, and stud protectors. Rear anchor tie down and bonded "Neo-Seal" gasket.

OPTIONS (Check/specify appropriate options)

Z1203-NR4	4 [102] No-Hub Right Hand Inlet with Flow to Left
Z1203-NL4	4 [102] No-Hub Left Hand Inlet with Flow to Right

PREFIXES

Z	D.C.C.I. System with Zurn "ZZ" Adjustable Coupling*
ZC	D.C.C.I. System with Compression Fit Faceplate
ZF	D.C.C.I. System with Non-Adjustable One Piece Carrier
ZQ	D.C.C.I. System with NPT Faceplate, Non-Adjustable Coupling


SUFFIXES

___ -A	Auxiliary Support Assembly (For 'P" Dim. Greater than 18 [457])	___ -X	Heavy-Duty 500 lb [227 kg] Carrier Rear Anchor Tie down
___ -B	Blowout Type Fixture Support	___ -XB	Bariatric 1000 lb [454 kg] Carrier
___ -BC	Back Cleanout	___ -XH	Extra-Heavy-Duty 750 lb [340 kg] Carrier
___ -BE	Barrel Extender	___ -XI	2 [51] Integral Foot Extension
___ -CC	Corrosion Resistant Cast Iron Coupling (6 [151] to 12 [305])	___ -X3	3 [76] Foot Extension Assembly
___ -CL	Coupling Length Greater Than 12 [305] (Specified Length Required)	___ -X4	4 [102] Foot Extension Assembly
___ -F	Floor Mounted, Back Outlet Fixture Support	___ -29	Mechanical Test Cap Assembly
___ -G	Galvanized Cast Iron	___ -45	Finishing Frame for Siphon Jet System (for Blow Out System specify -45-B)
___ -M	Auxiliary Foot Support (for 'P' Dim. 10 [254]-18 [457])	___ -50	Flush Valve Supply Support for Water Closets
___ -T	Threaded Connection	___ -61	"ZZ" Coupling Wrench
___ -VP	Vandal-Proof Trim		

REV. I

DATE: 11/20/08

C.N. NO. 9941



*REGULARLY FURNISHED UNLESS OTHERWISE SPECIFIED

REV. I DATE: 11/20/08 C.N. NO. 9941

DWG. NO. 59268 PRODUCT NO. Z1203-N

ZURN INDUSTRIES, LLC. ♦ SPECIFICATION DRAINAGE OPERATION ♦ 1801 Pittsburgh Ave. ♦ Erie, PA 16514

Phone: 814\455-0921 ♦ Fax: 814\454-7929 ♦ World Wide Web: www.zurn.com

In Canada: ZURN INDUSTRIES LIMITED ♦ 3544 Nashua Drive ♦ Mississauga, Ontario L4V1L2 ♦ Phone: 905/405-8272 Fax: 905/405-1297

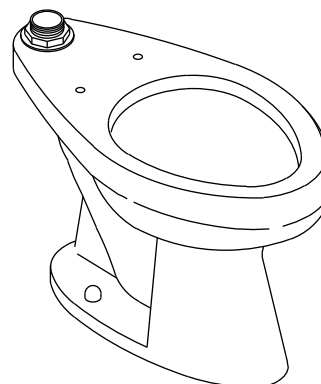


WC-2



KOHLER®**HIGHLINE®****Features**

- Vitreous china
- Elongated bowl
- With bedpan lugs (-L)
- 10" (254 mm) or 12" (305 mm) rough-in
- 1-1/2" top spud
- 2-1/4" (57 mm) passageway
- 11" (279 mm) x 9" (229 mm) water area
- 1.28 gpf (4.8 lpf) or 1.6 gpf (6.0 lpf) depending on flushometer specified
- 28-1/4" (718 mm) x 14-7/8" (378 mm) x 17-1/8" (435 mm)

**ELONGATED TOILET BOWL
K-4405****ADA****CSA B651****OBC****Codes/Standards Applicable**

Specified model meets or exceeds the following:

- **ADA**
- **ICC/ANSI A117.1**
- **CSA B651**
- **OBC**
- **ASME A112.19.2/CSA B45.1**

Colors/Finishes

- **0: White**
- CP: Polished Chrome
- Other: Refer to Price Book for additional colors/finishes

Specified Model

Model	Description	Colors/Finishes	
K-4405	Elongated toilet bowl (shown)	<input checked="" type="checkbox"/> 0	<input type="checkbox"/> Other_____
K-4405-L	Elongated toilet bowl - with bedpan lugs	<input type="checkbox"/> 0	<input type="checkbox"/> Other_____

Recommended Accessories

K-4654	Lustra™ open front seat with support arms and cover	<input type="checkbox"/> 0		
K-4654-A	Lustra open front seat with support arms and cover (with anti-microbial agent)	<input type="checkbox"/> 0		
K-4670-CA	Lustra open front seat (with anti-microbial agent)	<input type="checkbox"/> 0		
K-4731-C	Open front seat with check hinge	<input type="checkbox"/> 0		<input type="checkbox"/> Other_____
K-4731-SC	Open front seat with self-sustaining check hinge	<input type="checkbox"/> 0		<input type="checkbox"/> Other_____
K-10673	WAVE exposed toilet flushometer – 1.28 gpf (4.8 lpf)		<input type="checkbox"/> CP	
K-10956	Touchless DC toilet flushometer – 1.28 gpf (4.8 lpf)		<input type="checkbox"/> CP	
K-13517	Manual toilet flushometer – 1.28 gpf (4.8 lpf)		<input type="checkbox"/> CP	

For additional flushometer options, refer to the KOHLER price book.

Product Specification

The elongated toilet bowl shall be made of vitreous china. Bowl shall be 28-1/4" (718 mm) in length, 14-7/8" (378 mm) in width, and 17-1/8" (435 mm) in height. Bowl shall be 10" (254 mm) or 12" (305 mm) rough-in with 1-1/2" top spud. Bowl shall feature 1.28 gpf (4.8 lpf) or 1.6 gpf (6.0 lpf) depending on flushometer specified. Bowl shall have 11" (279 mm) by 9" (229 mm) water area and 2-1/4" (57 mm) passageway. Bowl shall have optional bedpan lugs (-L). Elongated toilet bowl shall be Kohler Model K-4405-0 or K-4405-L-_____.



224149

HIGHLINE®

Technical Information

Fixture*	
Configuration	top spud, elongated
Water per flush	1.28 gpf (4.8 lpf) or 1.6 gpf (6.0 lpf)*
Spud size	1-1/2" (38 mm)
Passageway	2-1/4" (57 mm)
Water area	11" (279 mm) x 9" (229 mm)
Water depth from rim	6" (152 mm)
Seat post hole centers	5-1/2" (140 mm)
Minimum static pressure required	35 psi (241.3 kPa)
Maximum static pressure	80 psi (551.6 kPa)
Minimum flowing pressure required	25 psi (172.4 kPa)
Required supply minimum	25 gal/min (94.6 l/min)
* Based upon use of a 1.28 gal (4.8 L) or 1.6 gal (6.0 L) flushometer.	

Included components:

Spud 18357

Bolt cap accessory pack 1013092

Flushometer requirements: For 12" (305 mm) rough-in, sweat extension nipple is required. Refer to manufacturer and local codes.

Installation Notes

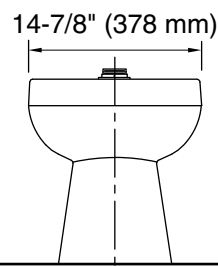
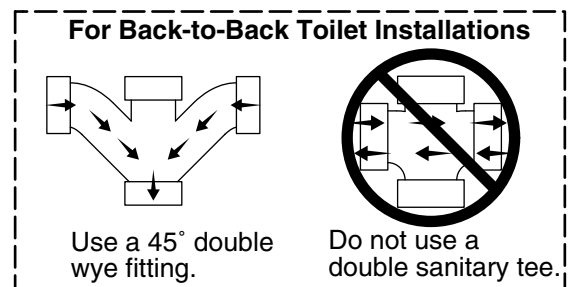
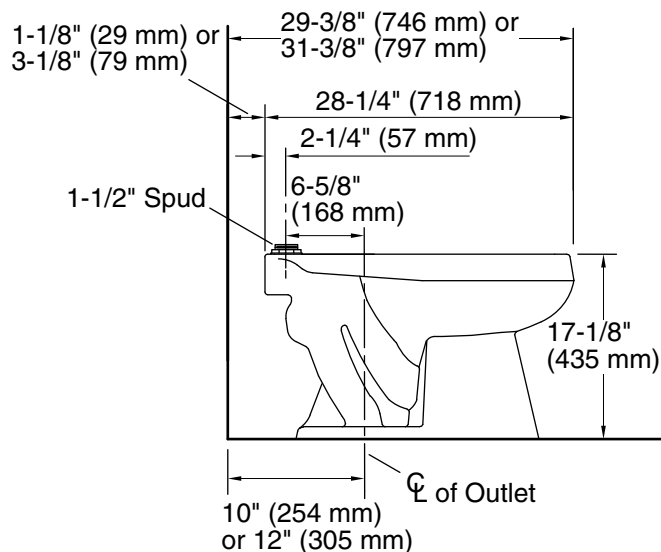
Install this product according to the installation guide.

For back-to-back toilet installations: Use only a 45° double wye fitting.

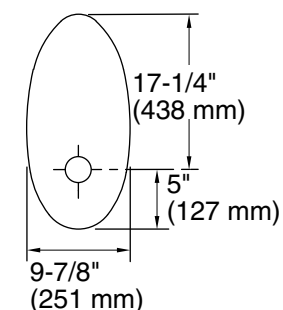
Will comply with the Americans with Disabilities Act (**ADA**) when installed per the requirements of the 2010 Standards for Accessible Design, Section 604 Water Closets, of the Act. The Model Plumbing Codes require the installation of elongated open-front toilet seats in public bathrooms.

Will comply with **CSA B651** when installed per Clause 4.3.6 of the standard.

Will comply with **OBC** Barrier Free requirements when installed per Clause 3.8.3.8 and 3.8.3.9.



Front of Bowl



Product Diagram

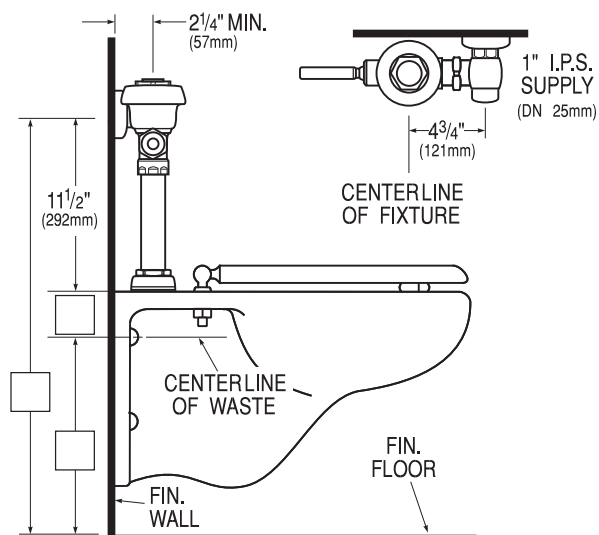
HIGHLINE® ELONGATED TOILET BOWL

Page 2 of 2
1058450-4-J

THE BOLD LOOK
OF **KOHLER**



224149



Royal® Model Flushometer

111-1.28

Description

Exposed Water Closet Flushometer, for floor mounted or wall hung top spud bowls.

Flush Cycle

Model 111-1.28 High Efficiency (1.28 gpf/4.8 Lpf)

Specifications

Quiet, Exposed, Diaphragm Type, Chrome Plated Closet Flushometer for left or right hand supply with the following features:

- PERMEX™ Synthetic Rubber Diaphragm with Dual Filtered Fixed Bypass
- ADA Compliant Metal Oscillating Non-Hold-Open Handle with Triple Seal Handle Packing
- 1" I.P.S. Screwdriver Bak-Chek® Angle Stop
- Free Spinning Vandal Resistant Stop Cap
- Adjustable Tailpiece
- High Back Pressure Vacuum Breaker Flush Connection with One-piece Bottom Hex Coupling Nut
- Spud Coupling and Flange for 1½" Top Spud
- Sweat Solder Adapter w/Cover Tube & Cast Wall Flange w/Set Screw
- High Copper, Low Zinc Brass Castings for Dezincification Resistance
- Non-Hold-Open Handle, Fixed Metering Bypass and No External Volume Adjustment to Ensure Water Conservation
- Flush Accuracy Controlled by CID™ Technology
- Diaphragm, Handle Packing, Stop Seat and Vacuum Breaker molded from PERMEX™ Rubber Compound for Chloramine Resistance

Valve Body, Cover, Tailpiece and Control Stop shall be in conformance with ASTM Alloy Classification for Semi-Red Brass. Valve shall be in compliance to the applicable sections of ASSE 1037.

Variations

- ☐ **XV** Valve Less Vacuum Breaker
- ☐ **SG** SaniGuard® Antimicrobial Handle and Socket

Accessories

See Accessories Section of the Sloan catalog for details on these and other Flushometer variations.

Fixtures

Consult Sloan for Sloan brand matching fixture options.



Made In The
USA



This space for Architect/Engineer approval

Job Name _____ Date _____

Model Specified _____ Quantity _____

Variations Specified _____

Customer/Wholesaler _____

Contractor _____

Architect _____

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A C C E S S O R I E S



Split Ring Pipe Support J-312-A



Solid Ring Pipe Support J-212-A



Solid Ring Pipe Support with Seat Bumper J-112-A

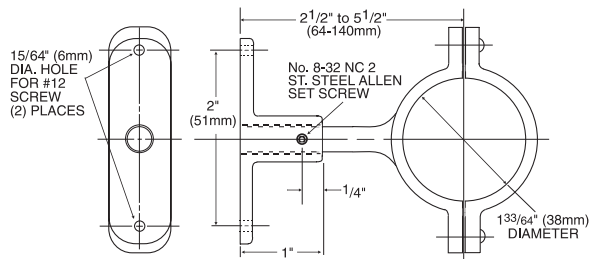
Pipe Supports

Pipe supports can be used with Sloan Flushometers to help secure the installation. Ideal for use in high vandalism installations, particularly when high rough-in valves have been installed. Pipe supports are designed to accommodate a 1½" diameter tube (when used with a urinal Flushometer Model, install at the top of the Vacuum Breaker Tube).

► Split Ring Pipe Support J-312-A

☐ YJ Variation

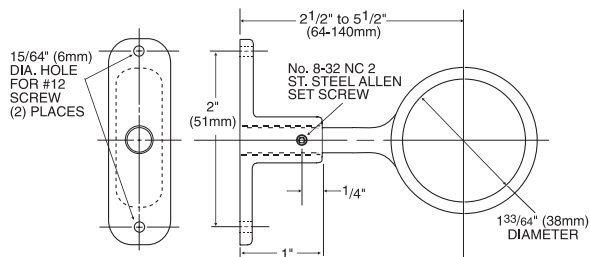
Chrome Plated, Split Ring Pipe Support with adjustable telescoping feature for accurate installation. For existing as well as new Flushometers.



► Solid Ring Pipe Support J-212-A

☐ YK Variation

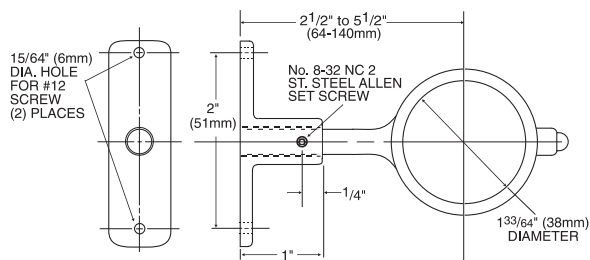
Chrome Plated, Solid Ring Pipe Support with adjustable telescoping feature for accurate installation. For new Flushometers.



► Solid Ring Pipe Support with Seat Bumper J-112-A

☐ YL Variation

Chrome Plated, Solid Ring Pipe Support with adjustable telescoping feature for accurate installation. Seat Bumper protects flush tube as well as toilet seat.



This space for Architect/Engineer approval

Job Name _____ Date _____

Model Specified _____ Quantity _____

Variations Specified _____

Customer/Wholesaler _____

Contractor _____

Architect _____

The information contained in this document is subject to change without notice.

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COMMERCIAL HEAVY-DUTY PLASTIC TOILET SEAT

MODEL #

COLOR #

1955CT/1955SSCT**WHITE****DESCRIPTION:**

Open front less cover, elongated, heavy-duty, injection molded solid plastic toilet seat. Features four molded-in bumpers, non self-sustaining (1955CT) or self-sustaining (1955SSCT) check hinges with non-corrosive 300 Series stainless steel posts and pintles and STA-TITE® Commercial Fastening System™. This seat complies with American National Standard Z124.5 Toilet (Water Closet) Seats as a class Commercial Heavy Duty.

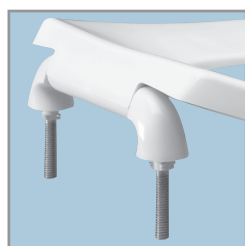
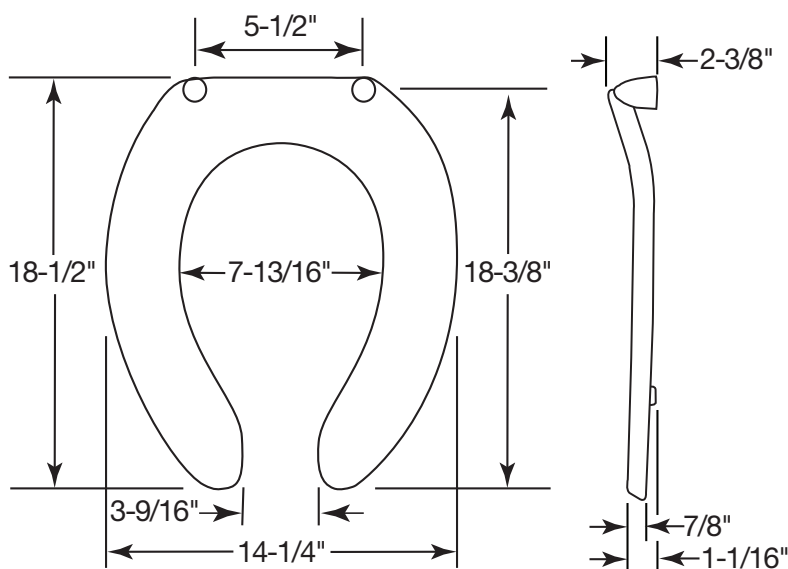
SPECIFICATIONS:

Size:	Elongated
Material:	Plastic
Style:	Open Front less Cover
Bumpers:	Four
Hinges:	Plastic Non Self-Sustaining (1955CT) or Self-Sustaining (1955SSCT) with 300 Series Stainless Steel Posts and Pintles
Fastening System:	STA-TITE® Commercial Fastening System™

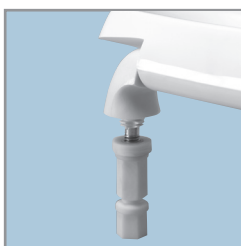
FEATURES:

STA-TITE® Commercial Fastening System™

Non-Corrosive 300 Series Stainless Steel Posts and Pintles

DIMENSIONS:

PLASTIC HINGES WITH
STAINLESS STEEL POSTS
AND PINTLES



STA-TITE® COMMERCIAL
FASTENING SYSTEM™



Bemis Manufacturing Co., Sheboygan Falls, WI 53085
www.ToiletSeats.com

Phone: 920-467-4621 | 800-558-7651 Fax: 920-467-8573

227849

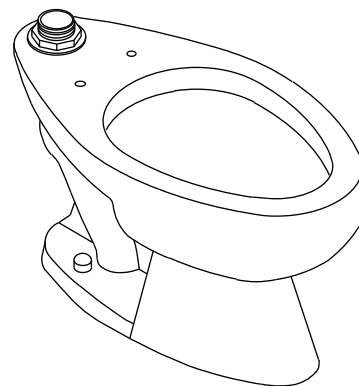


WC-3



KOHLER®**WELLWORTH®****Features**

- Vitreous china
- Elongated bowl
- With bedpan lugs (-L)
- 10" (254 mm) or 12" (305 mm) rough-in
- 1-1/2" top spud
- 2-1/4" (57 mm) passageway
- 11" (279 mm) x 9" (229 mm) water area
- 1.28 gpf (4.8 lpf) or 1.6 gpf (6.0 lpf) depending on flushometer specified
- 28-1/4" (718 mm) x 14-7/8" (378 mm) x 15" (381 mm)

**ELONGATED TOILET BOWL
K-4406**

237059

Codes/Standards Applicable

Specified model meets or exceeds the following:

- ASME A112.19.2/CSA B45.1
- Energy Policy Act of 1992

Colors/Finishes

- 0: White
- CP: Polished Chrome
- Other: Refer to Price Book for additional colors/finishes

Specified Model

Model	Description	Colors/Finishes	
K-4406	Elongated toilet bowl (shown)	<input checked="" type="checkbox"/> 0	<input type="checkbox"/> Other_____
K-4406-L	Elongated toilet bowl - with bedpan lugs	<input type="checkbox"/> 0	<input type="checkbox"/> Other_____

Recommended Accessories

K-4654	Lustra™ open front seat with support arms and cover	<input type="checkbox"/> 0		
K-4654-A	Lustra open front seat with support arms and cover (with anti-microbial agent)	<input type="checkbox"/> 0		
K-4670-CA	Lustra open front seat (with anti-microbial agent)	<input type="checkbox"/> 0		
K-4731-C	Open front seat with check hinge	<input type="checkbox"/> 0		<input type="checkbox"/> Other_____
K-4731-SC	Open front seat with self-sustaining check hinge	<input type="checkbox"/> 0		<input type="checkbox"/> Other_____
K-10673	WAVE exposed toilet flushometer – 1.28 gpf (4.8 lpf)		<input type="checkbox"/> CP	
K-10956	Touchless DC toilet flushometer – 1.28 gpf (4.8 lpf)		<input type="checkbox"/> CP	
K-13517	Manual toilet flushometer – 1.28 gpf (4.8 lpf)		<input type="checkbox"/> CP	

For additional flushometer options, refer to the KOHLER price book.

Product Specification

The elongated toilet bowl shall be made of vitreous china. Bowl shall be 28-1/4" (718 mm) in length, 14-7/8" (378 mm) in width, and 15" (381 mm) in height. Bowl shall be 10" (254 mm) or 12" (305 mm) rough-in with 1-1/2" top spud. Bowl shall be 1.28 gpf (4.8 lpf) or 1.6 gpf (6.0 lpf) depending on flushometer specified. Bowl shall have 11" (279 mm) by 9" (229 mm) water area. Bowl shall have 2-1/4" (57 mm) passageway. Bowl shall have bedpan lugs (-L). Bowl shall be Kohler Model K-4406-____ or K-4406-L-____.



WELLWORTH®

Technical Information

Fixture:	
Configuration	top spud, elongated
Water per flush	1.28 gpf (4.8 lpf) or 1.6 gpf (6.0 lpf)*
Spud size	1-1/2" (38 mm)
Passageway	2-1/4" (57 mm)
Water area	11" (279 mm) x 9" (229 mm)
Water depth from rim	6" (152 mm)
Seat post hole centers	5-1/2" (140 mm)
Minimum static pressure required	35 psi (241.3 kPa)
Maximum static pressure	80 psi (551.6 kPa)
Minimum flowing pressure required	25 psi (172.4 kPa)
Required supply minimum	25 gal/min (94.6 l/min)
* Based upon use of a 1.28 gal (4.8 L) or 1.6 gal (6.0 L) flushometer.	

Included Components:

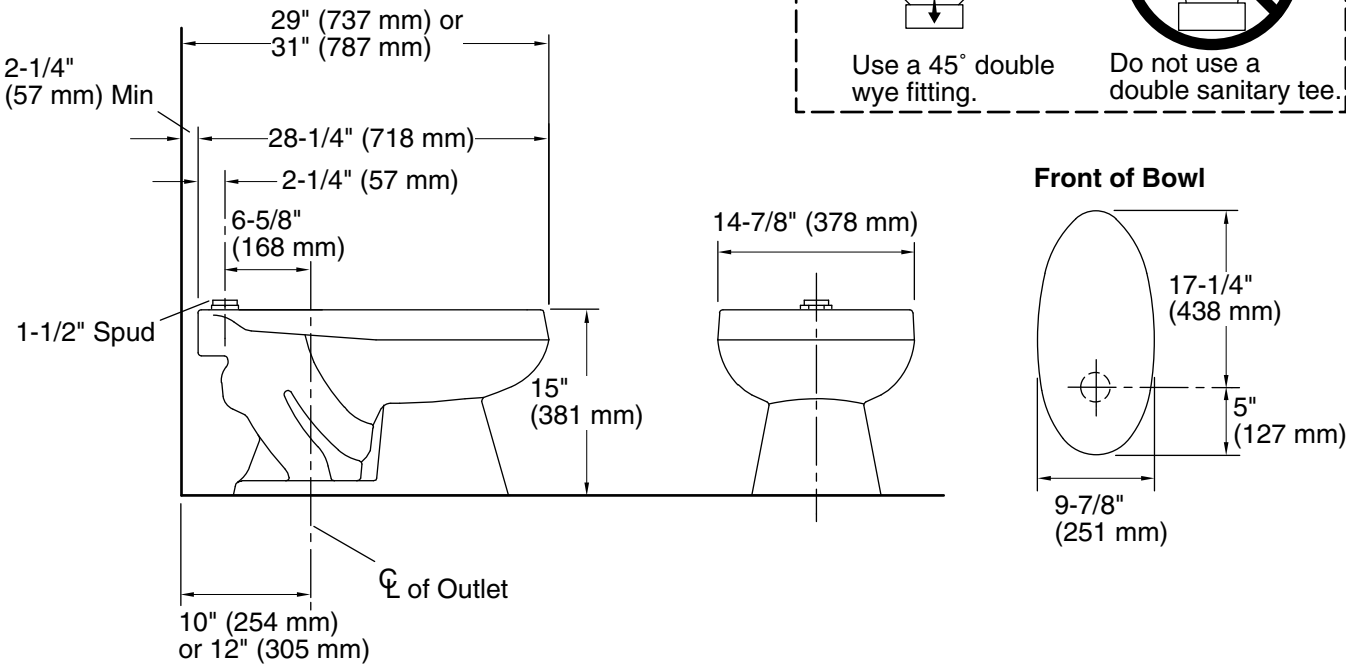
Spud	18357
Bolt cap accessory pack	1013092
Flushometer requirements: For 12" (305 mm) rough-in, sweat extension nipple is required. Refer to manufacturer and local codes.	

Installation Notes

Install this product according to the installation guide.

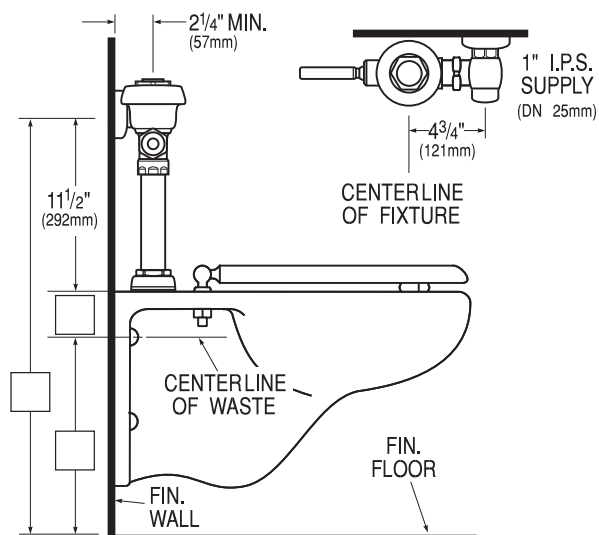
For back-to-back toilet installations: Use only a 45° double wye fitting.

237059



Product Diagram





Royal® Model Flushometer

111-1.28

Description

Exposed Water Closet Flushometer, for floor mounted or wall hung top spud bowls.

Flush Cycle

Model 111-1.28 High Efficiency (1.28 gpf/4.8 Lpf)

Specifications

Quiet, Exposed, Diaphragm Type, Chrome Plated Closet Flushometer for left or right hand supply with the following features:

- PERMEX™ Synthetic Rubber Diaphragm with Dual Filtered Fixed Bypass
- ADA Compliant Metal Oscillating Non-Hold-Open Handle with Triple Seal Handle Packing
- 1" I.P.S. Screwdriver Bak-Chek® Angle Stop
- Free Spinning Vandal Resistant Stop Cap
- Adjustable Tailpiece
- High Back Pressure Vacuum Breaker Flush Connection with One-piece Bottom Hex Coupling Nut
- Spud Coupling and Flange for 1½" Top Spud
- Sweat Solder Adapter w/Cover Tube & Cast Wall Flange w/Set Screw
- High Copper, Low Zinc Brass Castings for Dezincification Resistance
- Non-Hold-Open Handle, Fixed Metering Bypass and No External Volume Adjustment to Ensure Water Conservation
- Flush Accuracy Controlled by CID™ Technology
- Diaphragm, Handle Packing, Stop Seat and Vacuum Breaker molded from PERMEX™ Rubber Compound for Chloramine Resistance

Valve Body, Cover, Tailpiece and Control Stop shall be in conformance with ASTM Alloy Classification for Semi-Red Brass. Valve shall be in compliance to the applicable sections of ASSE 1037.

Variations

- ☐ **XV** Valve Less Vacuum Breaker
- ☐ **SG** SaniGuard® Antimicrobial Handle and Socket

Accessories

See Accessories Section of the Sloan catalog for details on these and other Flushometer variations.

Fixtures

Consult Sloan for Sloan brand matching fixture options.



Made In The
USA



This space for Architect/Engineer approval

Job Name _____ Date _____

Model Specified _____ Quantity _____

Variations Specified _____

Customer/Wholesaler _____

Contractor _____

Architect _____

The information contained in this document is subject to change without notice.

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www.sloanvalve.com





COMMERCIAL HEAVY-DUTY PLASTIC TOILET SEAT

MODEL #

COLOR #

1955CT/1955SSCT

WHITE

DESCRIPTION:

Open front less cover, elongated, heavy-duty, injection molded solid plastic toilet seat. Features four molded-in bumpers, non self-sustaining (1955CT) or self-sustaining (1955SSCT) check hinges with non-corrosive 300 Series stainless steel posts and pintles and STA-TITE® Commercial Fastening System™. This seat complies with American National Standard Z124.5 Toilet (Water Closet) Seats as a class Commercial Heavy Duty.

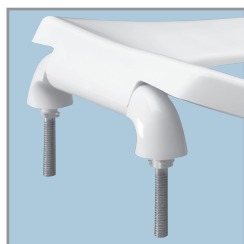
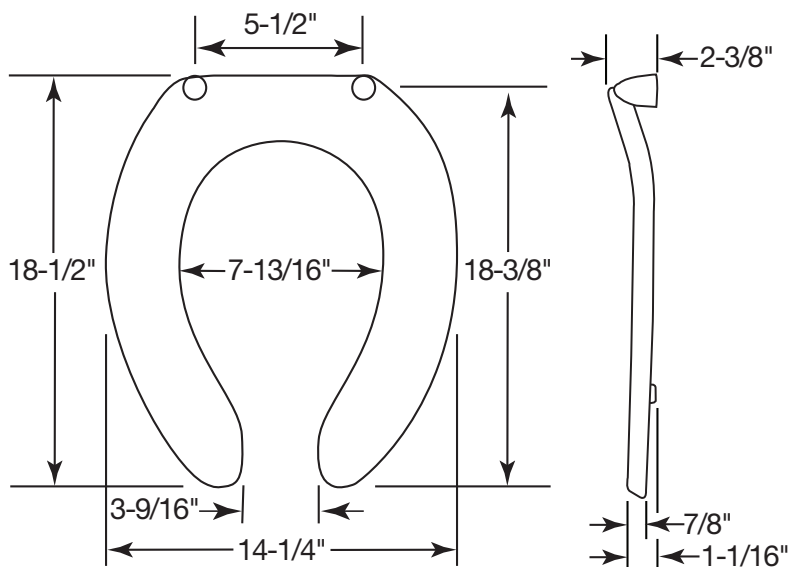
SPECIFICATIONS:

Size:	Elongated
Material:	Plastic
Style:	Open Front less Cover
Bumpers:	Four
Hinges:	Plastic Non Self-Sustaining (1955CT) or Self-Sustaining (1955SSCT) with 300 Series Stainless Steel Posts and Pintles
Fastening System:	STA-TITE® Commercial Fastening System™

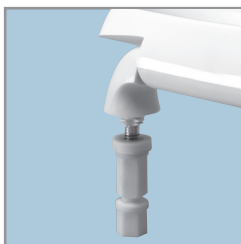
FEATURES:

STA-TITE® Commercial Fastening System™

Non-Corrosive 300 Series Stainless Steel Posts and Pintles

DIMENSIONS:

PLASTIC HINGES WITH
STAINLESS STEEL POSTS
AND PINTLES



STA-TITE® COMMERCIAL
FASTENING SYSTEM™



Proudly Made in the USA

Bemis Manufacturing Co., Sheboygan Falls, WI 53085
www.ToiletSeats.com

Phone: 920-467-4621 | 800-558-7651 Fax: 920-467-8573

227849



WF-1





MF2944

Terreon® Quadra-Fount® Washfountains

- cUPC Certified
- Serves One to Four Users at a Time
- Unique, Repairable, Solid Surface Material
- Highly Vandal Resistant
- Saves Water, Energy and Space
- ADA Compliant
- Available with Air Metering, TouchTime®, Infrared or Battery Infrared Control

Specifications

Size and Capacity

Accommodates 1–4 users at a time, using less water, energy and space than four lavs with conventional faucets. The pre-assembled sprayhead module is equipped with four independent streamformers, each controlled by a separate push button or infrared sensor.

Flow Control/Rate

Operating water pressure range is 20–80 psi. Flow regulators keep flow rate constant at all pressures. A flow restrictor keeps the flow rate at constant a .5 GPM under any pressure.

Construction

Bowl and Pedestal

Constructed of Terreon®, a densified solid surface material composed of polyester resin, or Terreon®RE, a densified solid surface material composed of a bio-based resin and preconsumer recycled granules. Terreon and TerreonRE are resistant to chemicals, stains, burns and impact. Surface damage can be easily repaired with everyday cleansers or fine grit abrasives. Terreon and TerreonRE are NAHB certified to meet ANSI Z124.3, Z124.6 and ANSI/ICPA SS-1-2001. Terreon and TerreonRE are GREENGUARD® certified as low-emitting materials. Pedestal frame and access panels are constructed of heavy gauge type 300 Series stainless steel.

Vandal Resistance

The molded sprayhead is an integral element of the bowl module. All streamformers and push buttons/infrared sensors are secured to the unit from inside the sprayhead module. All valving, water supplies and waste connections are concealed inside the pedestal. The front access panel is removable only with a hex key. The Terreon and TerreonRE bowl are resistant to stains, burns and impact. Surface damage is easily repaired and repair work is virtually undetectable.

Standard Equipment

Valves and Fittings

In addition to the bowl and pedestal, the following valves and fittings are standard: Navigator® thermostatic mixing valve, stop valves, flexible stainless steel supply hoses, drain spud and locknut. Stop valves mounted onto nominal copper tubing.

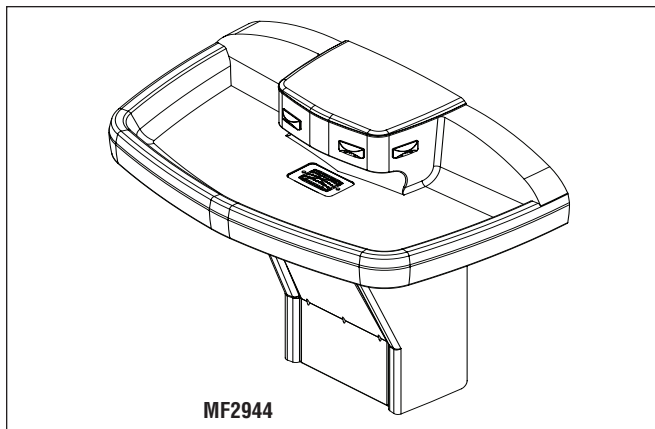
Activation Controls

Air Valve Hand Control

Each push button pneumatically actuates a non-hold-open, air metering, single-temperature valve with field adjustable timing from 0–45 seconds. Factory preset at 10 seconds. Each push button activates one valve which, in turn, activates one station. Push button requires less than five pounds of pressure.

Infrared Control

Each of the stream formers is controlled by a separate solenoid valve. Hands placed within the bowl are detected by an infrared sensor which activates a flow of tempered water from one station. Shut-off is automatic after hands are removed from the detection area. The infrared sensor uses a conical-shaped transmitting beam, having a detection area adapted to, but not exceeding, the bowl perimeter. The adaptive infrared sensor automatically adapts to the bowl after power is turned on. The sensor is not affected by varying color tones or darkness. Direct sunlight or bright washroom lights will not activate the system. Infrared models also include solenoid valves and a low-voltage transformer as standard equipment.



MF2944

- Solenoid – 24V, 50/60 Hz, 5/16" tube fitting. Few moving parts, and resistant to most chemicals, minerals, and impurities often present in municipal water supplies.
- Low-Voltage Transformer – Class II UL/CSA listed, 110/24 VAC plug-in transformer. Plugs into a standard GFCI protected electrical outlet. Location of transformer per local electrical code.

Battery Infrared Control

Each battery-powered sensor uses a zone-focused infrared transmitting beam, creating a large detection area not exceeding the bowl perimeter. The sensor is not affected by varying skin tones or darkness. When hands enter the detection area, the sensor starts water flow by opening the solenoid valve electronically. When hands leave the detection area, the sensor stops the flow of water by closing the valve. The 6-volt DC electronically activated solenoid valve has few moving parts, providing reliable operation that is unaffected by most chemicals and minerals often present in municipal water supplies. Each station is powered by a single lithium battery. Battery type is Duracell® DL 223A or equivalent (included). Battery type is Duracell® DL 223A 6 volt lithium or equivalent with a life expectancy of 4-5 years or approximately 200,000 cycles.

TouchTime Hand Control

Each low-voltage button actuates a non-hold-open, slow-closing anti-hammer solenoid valve that is timed from an electronic potted assembly. Each push button activates one valve which, in turn, activates one station. TouchTime controls water flow at each station through the use of solid state, digital circuitry. Timing is electronically controlled at 15 seconds. Push button requires less than five pounds of pressure.

Code Compliance and Certifications

ANSI Standards

Terreon and TerreonRE are certified by NAHB to meet ANSI Z124.3, Z124.6 and ANSI/ICPA SS-1-2001.

UPC Approval

Terreon Washfountains are Uniform Plumbing Code (UPC), International Plumbing Code (IPC) and National Plumbing Code of Canada (NPC) approved through the International Association of Plumbing and Mechanical Officials (IAPMO). Manufactured in compliance with IGC 156-2009, CSA B45 Series-2002 (R08) & ASME A112.18.1-2005/CSA B125.1-2005.

Barrier-Free

The standard height Quadra-Fount® is designed to comply with all ADA guidelines on reaches, clearances and operation.



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P.O. Box 309, Menomonee Falls, WI 53052-0309
Phone: 800.BRADLEY(800.272.3539) Fax: 262.253.4161
bradleycorp.com

Plumbing Fixtures
Document No. 2530

Page 1 of 3
This information is subject to change without notice.
11/27/2012

357248





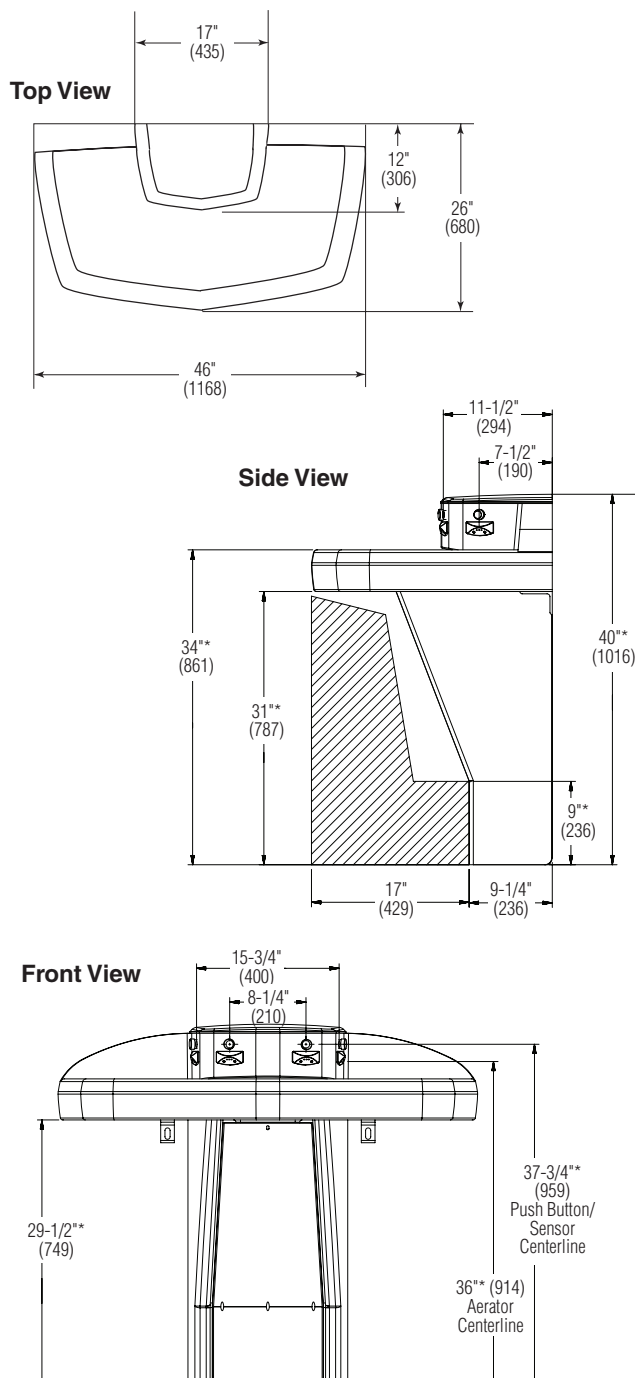
MF2944 Terreon® Quadra-Fount® Washfountains

(mm)

Standard Selections (Must select one from each category)			
Pedestal Height (select one)			
<input checked="" type="checkbox"/> STD	Standard Height	<input type="checkbox"/> JUV	Juvenile Height
<input type="checkbox"/> OBC	Ontario Building Code Height		
Valves (select one)			
<input type="checkbox"/> AST	Air Metering	<input type="checkbox"/> BIR3	Battery Infrared
<input checked="" type="checkbox"/> IR	Adaptive Infrared	<input type="checkbox"/> TT	TouchTime® Metering
Soap Dispenser (select one)			
<input type="checkbox"/> LSD	Liquid Soap Dispenser	<input checked="" type="checkbox"/> NSD	No Soap Dispenser
Color of Terreon Bowl (select one)			
<i>Standard Colors</i>			
<input type="checkbox"/> E-GRAY	Empire Gray	<input type="checkbox"/> LANNON	Lannonstone
<input type="checkbox"/> PEP-WHT	Peppered White	<input type="checkbox"/> COBBLE	Cobblestone
<input type="checkbox"/> SAND	Sandtrap	<input type="checkbox"/> WHT-SAND	White Sand
<input type="checkbox"/> CHAR*	Charcoal Gray	<input checked="" type="checkbox"/> LONDON	London Gray
<input type="checkbox"/> JADE*	Jade	<input type="checkbox"/> O-TAUPE	Organic Taupe
<input type="checkbox"/> GRAPH*	Graphite		
<i>Designer Colors** (available at an additional charge)</i>			
<input type="checkbox"/> ARC-CHIP	Arctic Chip	<input type="checkbox"/> COFFEE	Coffee Bean
<input type="checkbox"/> S-SAGE	Summer Sage	<input type="checkbox"/> CORN	Cornfield
<input type="checkbox"/> RIVER	Riverstone	<input type="checkbox"/> BLUESKY	Blue Sky
<input type="checkbox"/> MYSTIC-M	Mystic Moss	<input type="checkbox"/> HILLSIDE	Hill Side
<input type="checkbox"/> STAR-D	Stardust	<input type="checkbox"/> MOUNTAIN	Mountain Top
<i>TerreonRE Colors** (available at an additional charge)</i>			
<input type="checkbox"/> BIRCH-BARK	Birch Bark	<input type="checkbox"/> MAIZE	Maize
<input type="checkbox"/> DUSK	Dusk	<input type="checkbox"/> MOONDUST	Moon Dust
<input type="checkbox"/> FERN	Fern	<input type="checkbox"/> OLIVE	Olive
<input type="checkbox"/> OAT	Oat		
Supply (select one)			
<input type="checkbox"/> TMA	Navigator® Thermostatic Mixing Assembly (Hot & Cold Supplies)		
<input checked="" type="checkbox"/> TL	Single Tempered Line		

* Requires tempered supply (less than 110° F) or optional TMA

** Non-cancelable, not-returnable

Dimensions

* Subtract 1" from these dimensions for Ontario Building Code Height or 4" for Juvenile Height Model.

357248

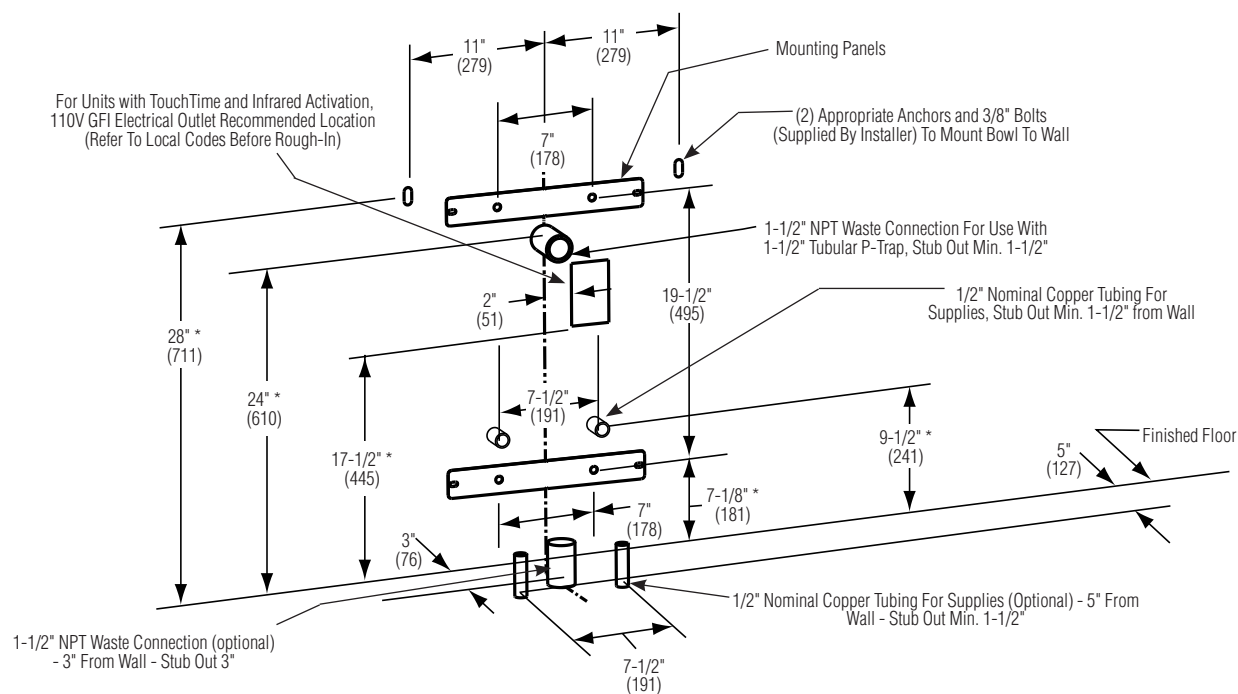




MF2944 Terreon® Quadra-Fount® Washfountains

Rough-Ins

(mm)



* Subtract 1" from these dimensions for Ontario
Building Code height or 4" for Juvenile Height Model.

357248



SP-1



Your Peace of Mind is Our Top Priority®

SECTION: 2.60.090

FM2193

0513

Supersedes

1012

Product information presented here reflects conditions at time of publication. Consult factory regarding discrepancies or inconsistencies.

**PUMP COMPANY**

Zoeller Family of Water Solutions™

MAIL TO: P.O. BOX 16347 • Louisville, KY 40256-0347
SHIP TO: 3649 Cane Run Road • Louisville, KY 40211-1961
(502) 778-2731 • 1 (800) 928-PUMP • FAX (502) 774-3624

visit our web site:
www.zoeller.com



THE ZOELLER **Oil Guard®** SYSTEM

FOR SUBMERSIBLE DEWATERING APPLICATIONS

APPLICATIONS:

Designed to help protect the environment and equipment from the dispersion of oils and/or hydrocarbons.

- Elevator Sumps
- Transformer Vaults
- Manufacturing Facilities

SYSTEMS:

- Operation of the Zoeller Oil Guard® System has been independently verified by OnSpeX, div. of CSA, when installed in accordance with our instructions.
- Choose from four model pumps. Includes pump, Oil Smart® switch and alarm (optional control panel).
- Control systems are ASME A17.1 compliant.

Oil Smart® SWITCH AND ALARM PANEL FEATURES:

- NEMA-4X alarm panel enclosure
- Audible, light alarms and dry contacts
- Preset "on" and "off" points differentiate oil and water and alerts maintenance personnel of high water or oil detected conditions
- 20 ft. piggyback electrical supply cord
- 20 amp internal relay
- Alarm test and silence switches
- 304 stainless steel probes
- UL508 approved switch



Model 940-0011 shown. Product may not be exactly as shown.

PUMP FEATURES:

- Pumps are durable cast iron construction with powder coated epoxy finish and all stainless steel fittings. See back page for a list of pump catalog sheets
- Tested to UL Standard UL778 and Certified to CSA Standard CSA 22.2 No. 108

SIMPLEX PANEL FEATURES:

- Oil Smart® liquid alarm switch
- Oil Smart® pump switch (10-2282)
- 115 volts, single phase
- NEMA 4X watertight enclosure with lockable latch
- 30 amp motor start relay
- Pump HOA switch
- Top-mounted red alarm beacon light
- 81 - 84 decibel rated alarm horn
- Horn silence and alarm test switches
- Alarm automatically resets
- Dry auxiliary alarm contacts
- Separate circuit protection for alarm
- Circuit breaker protection
- Pump "Run" indicator light



Model 10-2149



DUPLEX ALTERNATING PANEL FEATURES:

- Oil Smart® liquid alarm switch
- Oil Smart® pump switch (10-2283)
- Oil Smart® high water alarm switch for high demand two pump operation
- 115 volts, single phase
- NEMA 4X watertight enclosure with lockable latch
- Two 30 amp motor start relays
- Pump HOA switches
- Top mounted red alarm beacon light
- 81 - 84 decibel rated alarm horn
- Horn silence and alarm test switches
- Alarm automatically resets
- Dry auxiliary alarm contacts
- Separate circuit protection for alarm
- Pump "Run" indicator light



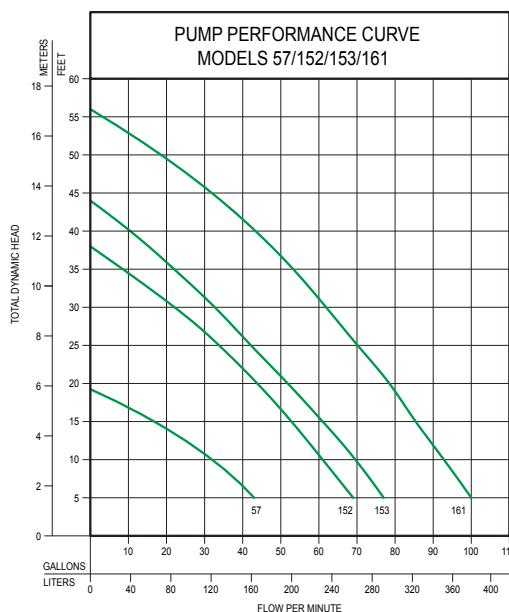
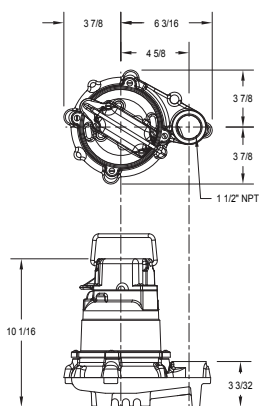
Model 10-2150



**TOTAL DYNAMIC HEAD/FLOW PER MINUTE
EFFLUENT AND DEWATERING**

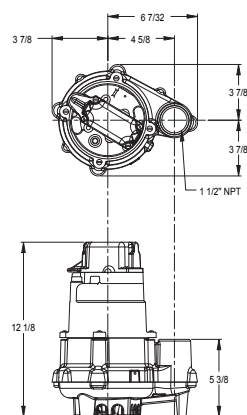
MODEL		57		152		153		161	
Feet	Meters	Gal.	Liters	Gal.	Liters	Gal.	Liters	Gal.	Liters
5	1.5	43	163	69	261	77	291	100	379
10	3.0	34	129	61	231	70	265	93	352
15	4.6	19	72	53	201	61	231	85	322
20	6.1	--	--	44	167	52	197	79	299
25	7.6	--	--	34	129	42	159	70	265
30	9.1	--	--	23	87	33	125	62	235
35	10.7	--	--	--	--	22	83	54	204
40	12.2	--	--	--	--	11	42	45	170
50	15.2	--	--	--	--	--	--	20	76
Shut-off Head:		19.25 ft (5.9 m)		38 ft (11.6 m)		44 ft (13.4 m)		56 ft (17 m)	

018939

**Model 57**

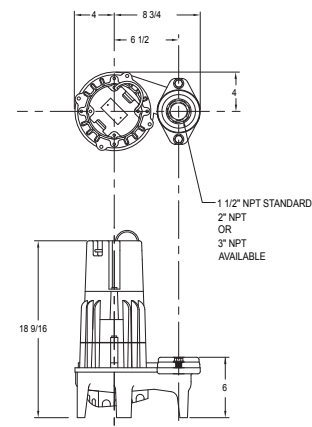
SK1015

(See FM0493)

Model 152/153

SK2064

(See FM1919)

Model 161

SK2644

(See FM0460)

COMPONENTS:

Part Number	Description	Alarm Panel	Oil Smart® Pump Switch	Oil Smart® High Liquid Alarm Switch	Oil Smart® High Liquid Switch
10-1526	Oil Smart® Alarm Panel	✓	---	✓	---
10-1528	Oil Smart® Pump Switch	---	✓	---	---
10-1727	Oil Smart® Pump Switch w/o Plug	---	✓	---	---
10-2149	Oil Smart® Simplex Panel	✓	✓	✓	---
10-2150	Oil Smart® Duplex Panel	✓	✓	✓	✓
10-2516	Oil Smart® Simplex Panel w/ Mtr. Cont.	✓	✓	*	---

✓ INCLUDED * VARIABLE LEVEL FLOAT SWITCH

These systems are not designed for Explosion Proof Environments. Please consult factory for special options and requirements.

⚠ CAUTION

All installation of controls, protection devices and wiring should be done by a qualified licensed electrician. All electrical and safety codes should be followed including the most recent National Electrical Code (NEC) and the Occupational Safety and Health Act (OSHA).

CHOOSE A PREPACKAGED SYSTEM:

Part Number	Description	Alarm Panel	Oil Smart® Pump Switch	Nonauto Pump	Pump Part Number	Voltage	HP	Amps	Elevator System
940-0005	Oil Guard® Pump Switch and Panel	10-1526	10-1528	N57	57-0002	115	3/10	9.7	---
940-0006	Oil Guard® Pump Switch and Panel	10-1526	10-1528	N152	152-0002	115	4/10	8.5	---
940-0007	Oil Guard® Pump Switch and Panel	10-1526	10-1528	N153	153-0002	115	1/2	10.5	---
940-0008	Oil Guard® Pump Switch and Panel	10-1526	10-1528	N161	161-0002	115	1/2	15.0	---
940-0012	Oil Guard® Pump Switch and Panel	10-1526	10-1528	*N152	*152-0028	115	4/10	8.5	✓
940-0013	Oil Guard® Pump Switch and Panel	10-1526	10-1528	*N153	*153-0027	115	1/2	10.5	✓
940-0014	Oil Guard® Pump Switch and Panel	10-1526	10-1528	*N161	*161-0090	115	1/2	15.0	✓

* 6' SO JACKETED CORD FOR OIL-RESISTANCE

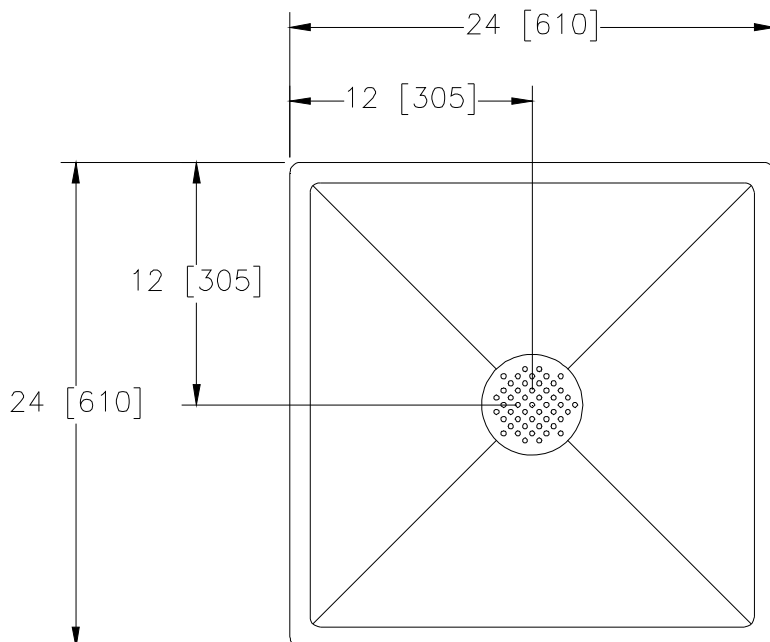
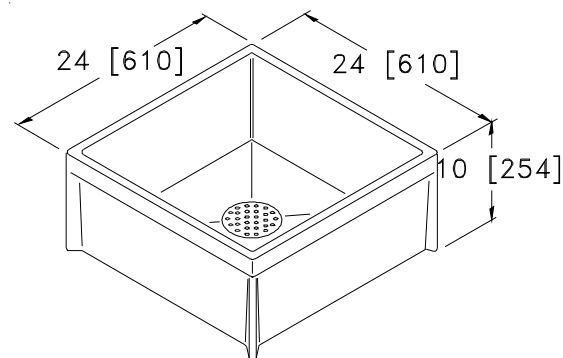
NOTE: BUILD YOUR OWN SYSTEM. CONTACT FACTORY FOR SPECIFICATIONS.



MS-1



Dimensional Data (inches and [mm]) are Subject to Manufacturing Tolerances and Change Without Notice



Product	Mop Basin Size	Approx. Wt. Lbs. [kg]
Z1996-24	24 x 24 x 10 [610 x 610 x 254]	50 [23]

ENGINEERING SPECIFICATION: Z1996-24

Mop Service Basin 24 x 24 x 10 [610 x 610 x 254] Molded high density composite basin, PVC drain body, stainless steel strainer and 3 [76] gasketed outlet connection. Certifications: Meets ANSI Z124.6, CSA listed, and IAPMO listed under file # 3561.

OPTIONS (Check/specify appropriate options)

SUFFIXES

- ___ -AW White Body
- ___ -BS Stainless Steel Bumper Guard
- ___ -BV Vinyl Bumper Guard
- ___ -HH Hose and Hose Bracket
- ___ -MH Mop Hanger
- ___ -NHG PVC Drain Gasket for No-Hub Pipe
- ___ -PRP Pipe Reducer for PVC Drain
- ___ -PRS Pipe Reducer for Stainless Steel Drain
- ___ -SD 3 [76] Stainless Steel Drain with Dome Strainer and Lint Basket
- ___ -SDL Stainless Steel Drain with Dome Strainer, Lint Basket and Locking Nut
- ___ -SF Service Faucet
- ___ -WG Wall Guard #20 Gage Type 304 Stainless Steel (2 Panels-Indicate Size)





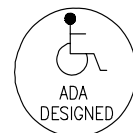
SINK FAUCET Z843M1

TAG _____

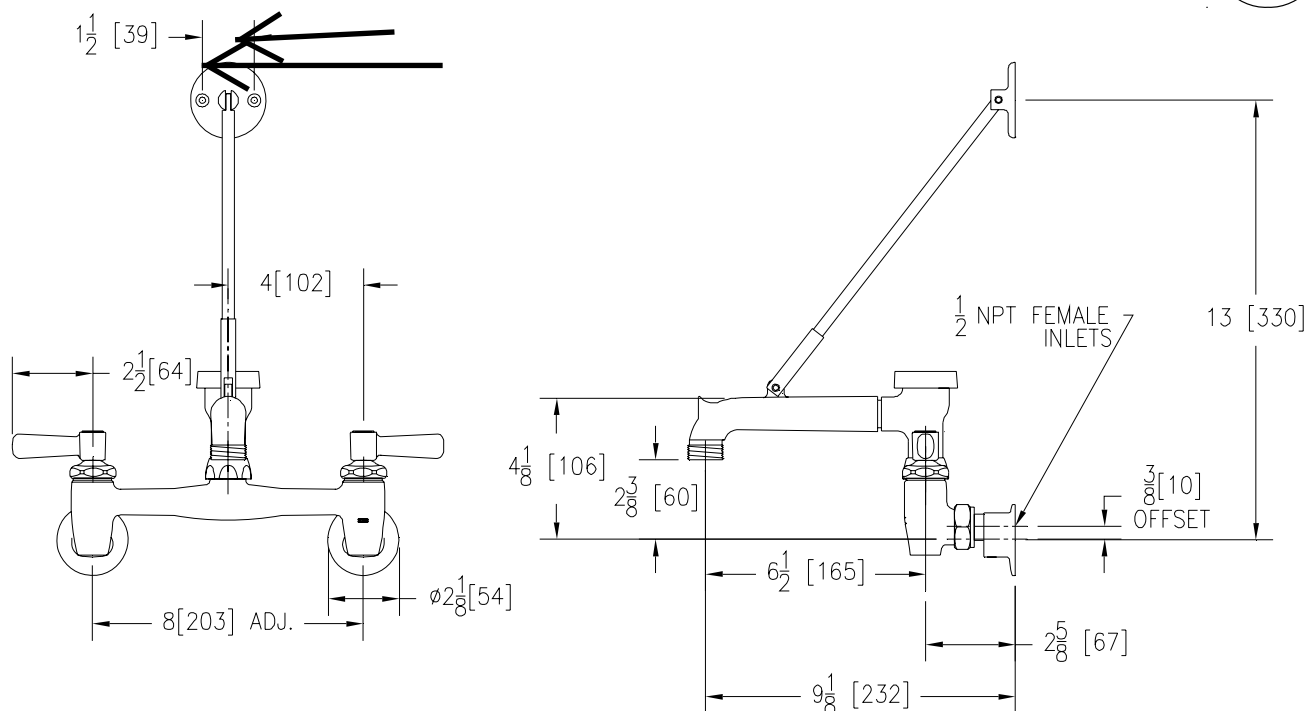


Engineering Specifications: Zurn AquaSpec® Z843M1

Polished chrome-plated cast brass 8" [203mm] sink faucet with quarter turn ceramic disc cartridges, 3/8" [10mm] short swivel inlets providing adjustable centers from 7-1/4" [184mm] to 8-3/4" [222mm], integral service stops and a 6" [152mm] centerline cast brass spout with chemical resistant atmospheric vacuum breaker, 3/4" hose threaded outlet, pail hook and adjustable wall brace. Unit is furnished with 2-1/2" [64mm] vandal-resistant color-coded brass lever handles. Vacuum breaker is certified to the Uniform Plumbing Code®, ASSE 1001-2002 and CSA B64-01. (Note: Atmospheric vacuum breaker not intended for continuous pressure applications.)



141376



Note: All dimensions are for reference only. Do not use for pre-plumbing

OPTIONAL ACCESSORIES

Suffix	Description
___-CS	Check Stops
___-HCT	Hot/Cold Text Indexes
___-LSI	2-1/2" [64mm] Long Swivel Inlets
___-RC	Rough Chrome Plated
___-WHK	Wall Hook
___-5H	5' [152cm] Vinyl Hose
___-6P	Master Carton (Qty. 6)

ZURN INDUSTRIES, LLC ♦ COMMERCIAL BRASS OPERATION ♦ 2640 SOUTH WORK STREET ♦ FALCONER NY 14733

Phone: 1-800-997-3876 ♦ Fax: 1-919-775-3541 ♦ www.zurn.com

In Canada: ZURN INDUSTRIES LIMITED ♦ 3544 Nashua Drive ♦ Mississauga, Ontario L4V1L2 ♦ Phone: 905/405-8272 Fax: 905/405-1111



MV-1



Submittal Data Sheet S-841-LF
February 2013

THERMOSTATIC MIXING VALVE

ECO-MIX™

MODEL 170-LF

LEAD FREE THERMOSTATIC POINT OF USE MIXING VALVE

MODEL 3/8" inlets, 3/8" outlet,
compression connections

MATERIALS:

- Lead Free Bronze body
- Locked temperature adjustment cap (vandal resistant)
- Copper encapsulated thermostat assembly with polymer thermoplastic shuttle
- Stainless steel springs
- Buna-N O-rings
- Integral check valves on hot and cold inlets
- Compression fittings on inlets and outlet

PRESSURE-TEMPERATURE:

- Minimum Flow: 0.25 GPM (.95 l/min)
- Maximum Pressure: 125 PSI (8.6 BAR)
- Maximum Hot Water temperature: 200°F (93°C)
- Approach Temperature 5°F (2.8°C) above set point.
- Temperature adjustment range, 90-140°F (32-60°C) **

OPTION: (Furnished separately)

- ___ BP- Cold water By-Pass
___ BRKT- Mounting Bracket

****NOTE:** For temperatures outside of this valve's stated range, please see our line of bi-metal valves.

ASSE 1070 CERTIFIED



This product is certified to meet Low Lead requirements of wetted surface area containing less than 0.25% lead by weight

* 0.25 GPM minimum flow certified to ASSE 1070

LEONARD®
WATER TEMPERATURE CONTROLS

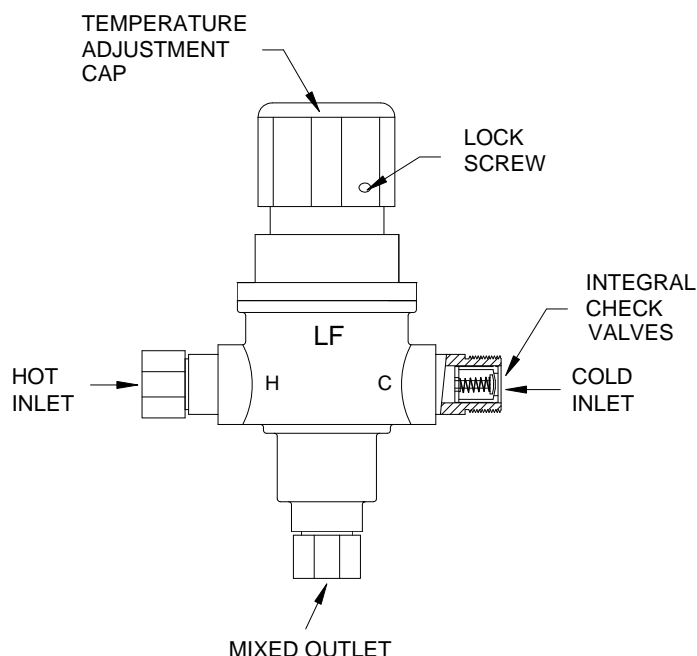
1360 Elmwood Avenue, Cranston, RI 02910 USA

Phone: 401.461.1200 Fax: 401.941.5310

Email: info@leonardvalve.com

Web Site: <http://www.leonardvalve.com>

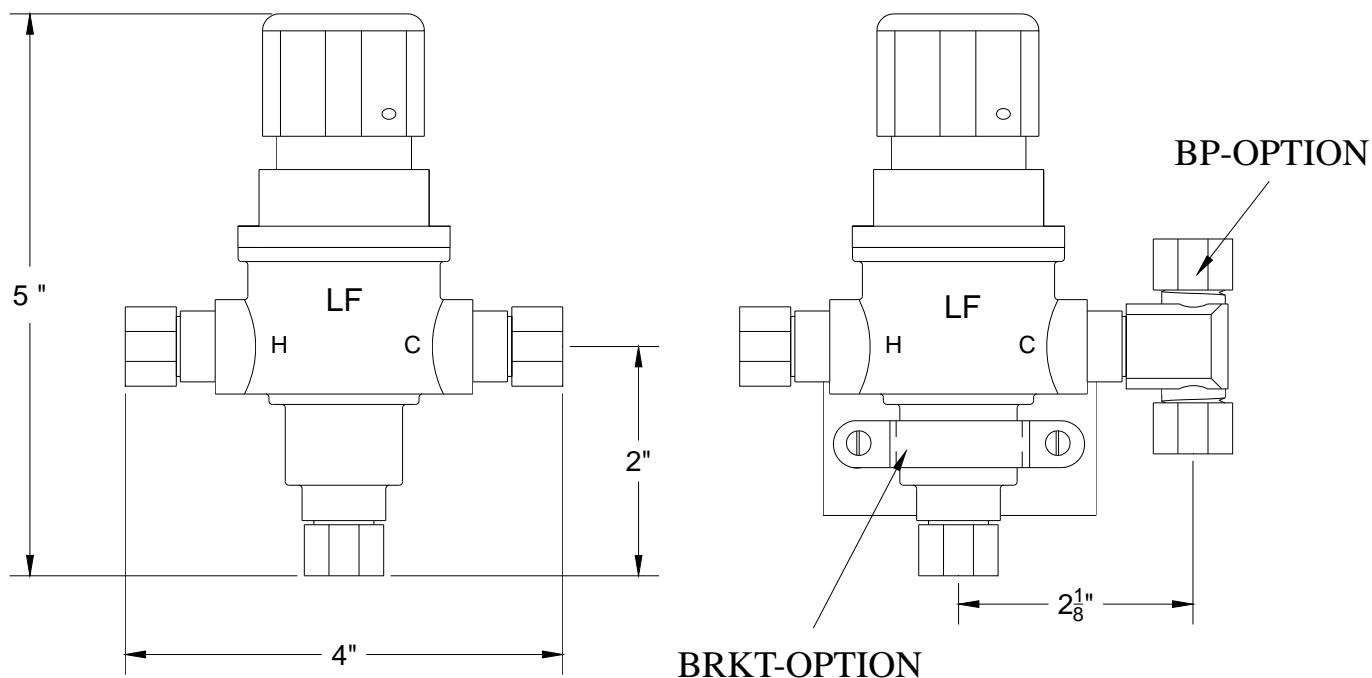
350320



MINIMUM FLOW	PRESSURE DROP						PSI BAR
	5	10	20	30	40	50	
0.25	.35	.70	1.4	2.1	2.8	3.4	GPM
0.95	1.7	2.3	3.0	3.6	4.4	5.0	l/min
	6.4	8.7	11.4	14	17	19	

Engineer's Approval	Job # _____
	Arch/Eng. _____
	Contractor _____

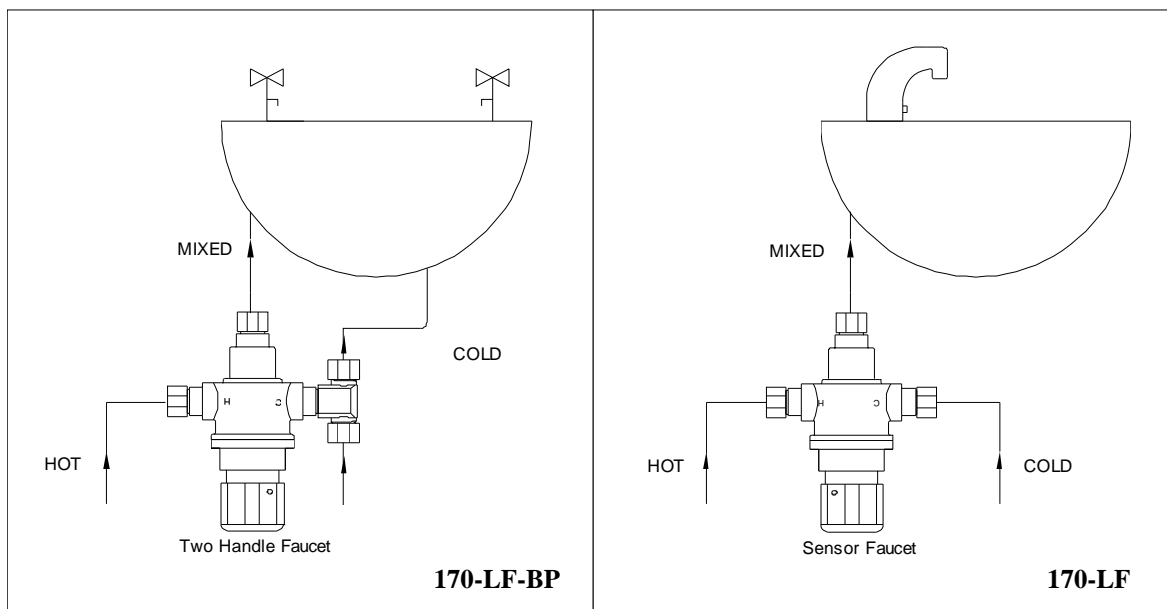




350320

APPLICATION

The Model 170-LF is a high performance Temperature Actuated Mixing Valve used to supply single outlets. Can be used to supply one sensor faucet or one two handle manual faucet.



Note: Leonard Valve Company reserves the right of product, or design modifications without notice or obligation.

LEONARD[®]
WATER TEMPERATURE CONTROLS

1360 Elmwood Avenue, Cranston, RI 02910 USA

Phone: 401.461.1200 Fax: 401.941.5310

Email: info@leonardvalve.com

Web Site: <http://www.leonardvalve.com>

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Printed in USA



S-1



ELKAY®

SPECIFICATIONS

Hand Wash-Up Sink Type 304 Models CHS1716C and CHS1716

GENERAL

CHS1716C Type 304 (18-8) stainless steel hand wash-up sink. Basin has 1-3/4" (45mm) radius coved corners. Full length 7" (178mm) high backsplash. Exposed surfaces have a brushed finish. Furnished with a wall hanger and integral stainless steel support brackets. Carries NSF International Certification.

FURNISHED COMPLETE WITH:

SUPPLY: **LK940GN04L2H** Chrome plated gooseneck spout faucet with AE13A aerator.

DRAIN: **LK8** Chrome plated stamped brass perforated strainer grid. 1-1/2" (38mm) O.D. x 4" (102mm) tailpiece.

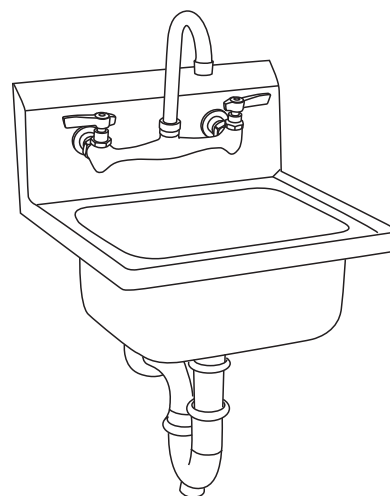
TRAP: **LK500** Chrome plated cast brass 1-1/2" (38mm) O.D. "P" trap with cleanout, 1-1/2" (38mm) O.D. waste arm to wall, and wall flange.

FOLLOWING MODEL DOES NOT INCLUDE FAUCET AND FITTINGS:

☐ CHS1716

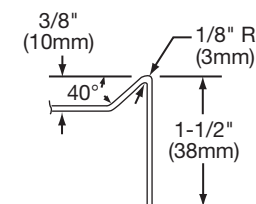
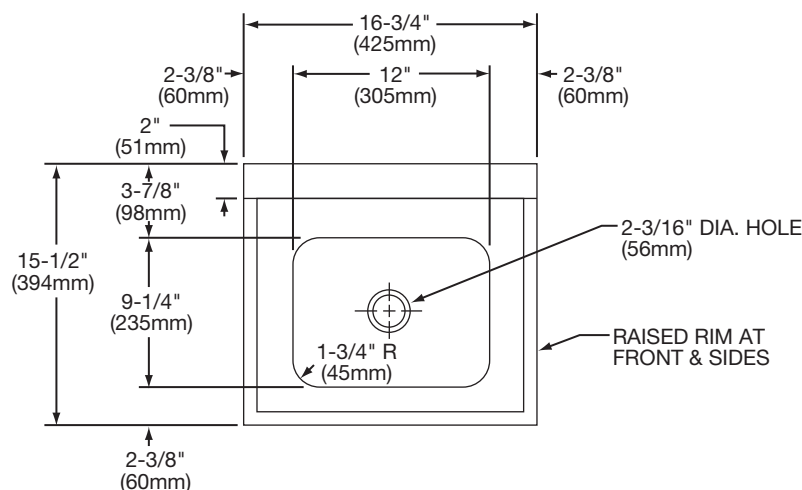
SPECIFY FAUCET DRILLINGS AND LOCATION.

(See other side for standard faucet hole drilling configurations.)

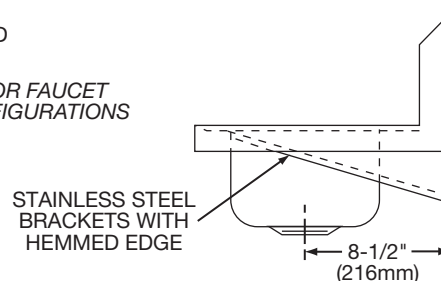
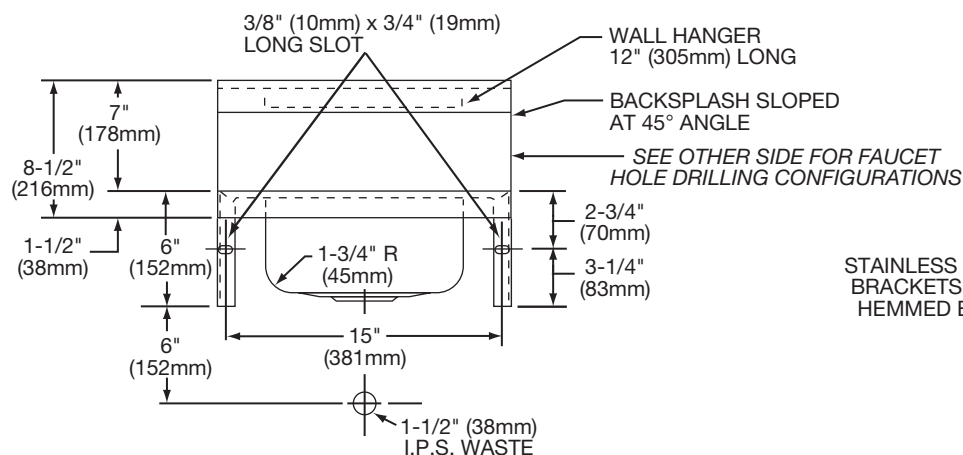


Model CHS1716C

16850



SECTION THROUGH RIM



Model CHS1716C Illustrated

In keeping with our policy of continuing product improvement, Elkay reserves the right to product specifications without notice.

Elkay

elkayusa.com

2222 Camden Court
Oak Brook, IL 60523

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(11/09)

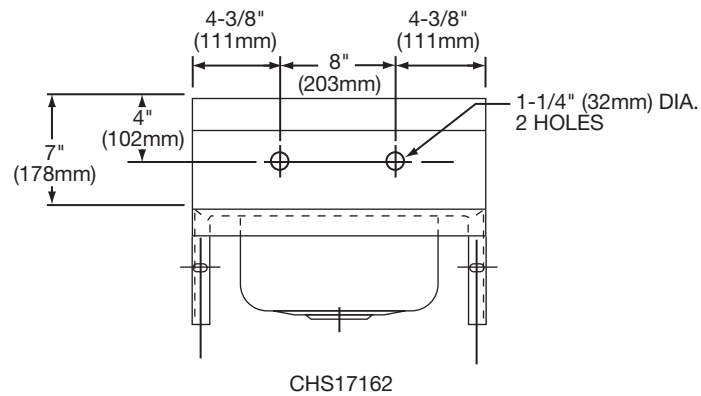
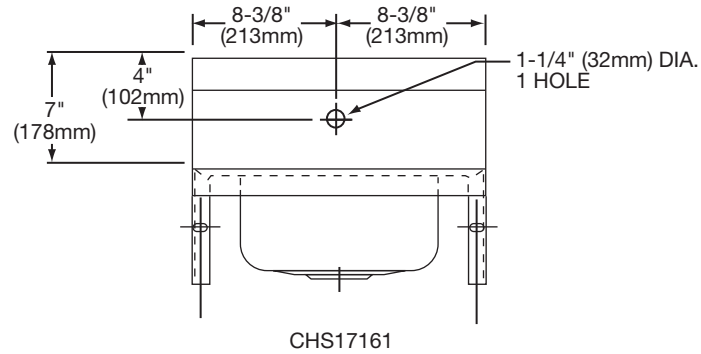
4



Hand Wash-Up Sink
Type 304
Models CHS1716C and CHS1716

ELKAY®
SPECIFICATIONS

HOLE DRILLING CONFIGURATIONS



16850



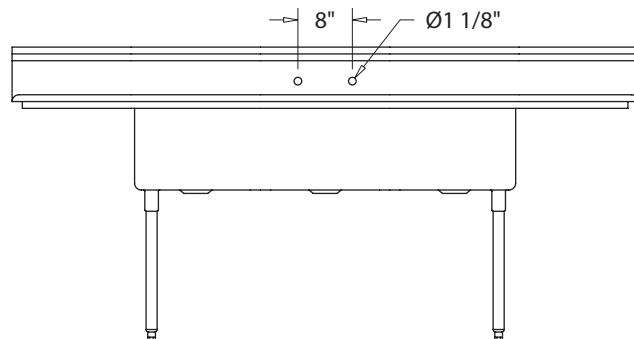
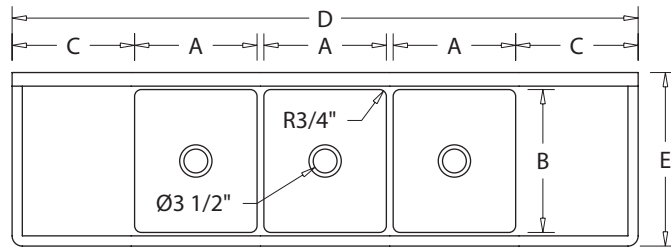
S-2



C60 & C75
SERIES SERIES**SCULLERY SINKS**
3-Compartments • L&R Drainboards

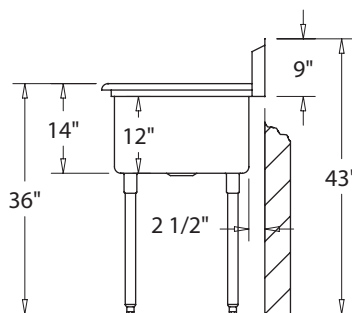
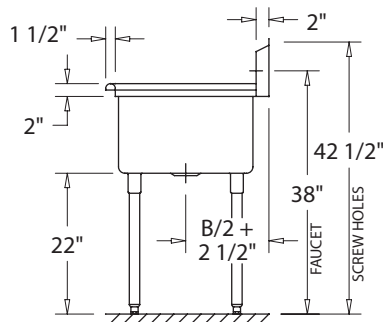
specifications

LIFETIME GUARANTEE

ITEM# **C 7 5 - 3 8 4 - 4 4**
MODEL#
PROJECT

ROUGH-IN

SECTION

**C60 C75** (specify)

<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	MODEL	A X B	C	D	E
<input type="checkbox"/>	<input type="checkbox"/>	-88		18"	74"	
<input type="checkbox"/>	<input type="checkbox"/>	-378-44	12" x 18"	24"	86"	22½"
<input type="checkbox"/>	<input type="checkbox"/>	-33		30"	98"	
<input type="checkbox"/>	<input type="checkbox"/>	-88		18"	83"	
<input type="checkbox"/>	<input type="checkbox"/>	-354-44	15" x 24"	24"	95"	28½"
<input type="checkbox"/>	<input type="checkbox"/>	-33		30"	107"	
<input type="checkbox"/>	<input type="checkbox"/>	-88		18"	86"	
<input type="checkbox"/>	<input type="checkbox"/>	-368-44	16" x 18"	24"	98"	22½"
<input type="checkbox"/>	<input type="checkbox"/>	-33		30"	110"	
<input type="checkbox"/>	<input type="checkbox"/>	-88		18"	86"	
<input type="checkbox"/>	<input type="checkbox"/>	-361-44	16" x 21"	24"	98"	25½"
<input type="checkbox"/>	<input type="checkbox"/>	-33		30"	110"	
<input type="checkbox"/>	<input type="checkbox"/>	-88		18"	92"	
<input type="checkbox"/>	<input type="checkbox"/>	-388-44	18" x 18"	24"	104"	22½"
<input type="checkbox"/>	<input type="checkbox"/>	-33		30"	116"	
<input type="checkbox"/>	<input type="checkbox"/>	-88		18"	92"	
<input type="checkbox"/>	<input type="checkbox"/>	-381-44	18" x 21"	24"	104"	25½"
<input type="checkbox"/>	<input type="checkbox"/>	-33		30"	116"	
<input type="checkbox"/>	<input type="checkbox"/>	-88		18"	92"	
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	-384-44	18" x 24"	24"	104"	28½"
<input type="checkbox"/>	<input type="checkbox"/>	-33		30"	116"	
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<input type="checkbox"/>	<input type="checkbox"/>	-321-44	20" x 21"	24"	110"	25½"
<input type="checkbox"/>	<input type="checkbox"/>	-33		30"	122"	
<input type="checkbox"/>	<input type="checkbox"/>	-88		18"	98"	
<input type="checkbox"/>	<input type="checkbox"/>	-324-44	20" x 24"	24"	110"	28½"
<input type="checkbox"/>	<input type="checkbox"/>	-33		30"	122"	
<input type="checkbox"/>	<input type="checkbox"/>	-88		18"	98"	
<input type="checkbox"/>	<input type="checkbox"/>	-323-44	20" x 30"	24"	110"	34½"
<input type="checkbox"/>	<input type="checkbox"/>	-33		30"	122"	
<input type="checkbox"/>	<input type="checkbox"/>	-88		18"	110"	
<input type="checkbox"/>	<input type="checkbox"/>	-344-44	24" x 24"	24"	122"	28½"
<input type="checkbox"/>	<input type="checkbox"/>	-33		30"	134"	
<input type="checkbox"/>	<input type="checkbox"/>	-88		18"	110"	
<input type="checkbox"/>	<input type="checkbox"/>	-343-44	24" x 30"	24"	122"	34½"
<input type="checkbox"/>	<input type="checkbox"/>	-33		30"	134"	

MATERIAL

- C60 Series 16 gauge, type 304 stainless
- C75 Series 14 gauge, type 304 stainless
 - Sink bowl(s)
 - Drainboard(s)¹
 - Backsplash
- Type 304 stainless steel
 - Basket drains
 - Apron front²
 - Leg sockets
 - Sink legs & feet

MECHANICAL

- Backsplash is 9" tall with a 2" wide return.
- Tile edge is 1" tall with pre-punched mounting holes, ¼" diameter.
- Faucet holes are 1½" diameter on 8" centers (sinks with cumulative A dimension greater than 54" are provided two sets of faucet holes).
- Sink legs are 1½" dia. with adjustable feet.
- Drain openings are 3½", recessed.
- Basket drains are 1½" IPS.
- Supply is ½" IPS, hot and cold.

FEATURES

- Sink bowl(s) are 'True Gauge', not drawn.
- Sanitary rolled rim is 2" tall x 1½" wide.
- Coved compartments are ¾" radius, both horizontal and vertical.
- Unitized construction. Stiffeners welded directly to sink bowls ensure maximum rigidity.²
- Full front apron enclosure is standard.²
- Leg sockets are welded directly to sink bowl providing proper load support.
- Drainboard(s) are pitched to drain into adjacent sink bowl.¹
- Tile edge is provided with pre-punched mounting holes to securely fasten sink to the wall.
- All seams are TIG welded and ground to a smooth #4 satin finish.
- Custom configurations are available.
- NSF approved.
- Lifetime warranty.
- Proudly made in the USA.

ACCESSORIES

- FS-108 8" swing spout faucet
- FS-112 12" swing spout faucet
- FS-114 14" swing spout faucet
- FA-100 Wrist blade handles
- FA-200 Articulating swing arm
- FR-128 Pre-rinse spray.
- WL-200 2" IPS lever drain
- WL-201 2" IPS lever drain w/ overflow

We welcome the opportunity to help you design and configure equipment to suit your specific needs.

In keeping with our policy of continuing product improvement, we reserve the right to change product specifications without notice.

GRIFFIN PRODUCTS, INC.
303 Blue Bird Parkway
Wills Point, TX 75169
(800) 379-9709 tel
(903) 873-6389 fax

www.griffinproducts.com
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¹ n/a when drainboards are not present.

² n/a for one compartment sinks.

FEATURES

Model LK940DS20L2H

- Two hole dual handle wall mount faucet
- Quarter turn ceramic disc cartridge
- 1/2" adjustable inlets
- Solid brass construction
- Chrome finish
- 2.2 GPM VR aerator with 1.5 and .5 GPM inserts
- Includes spout swing restriction pin

Model LK940DS20T4H

- Same as LK940DS20L2H except with 4" wrist blades handles

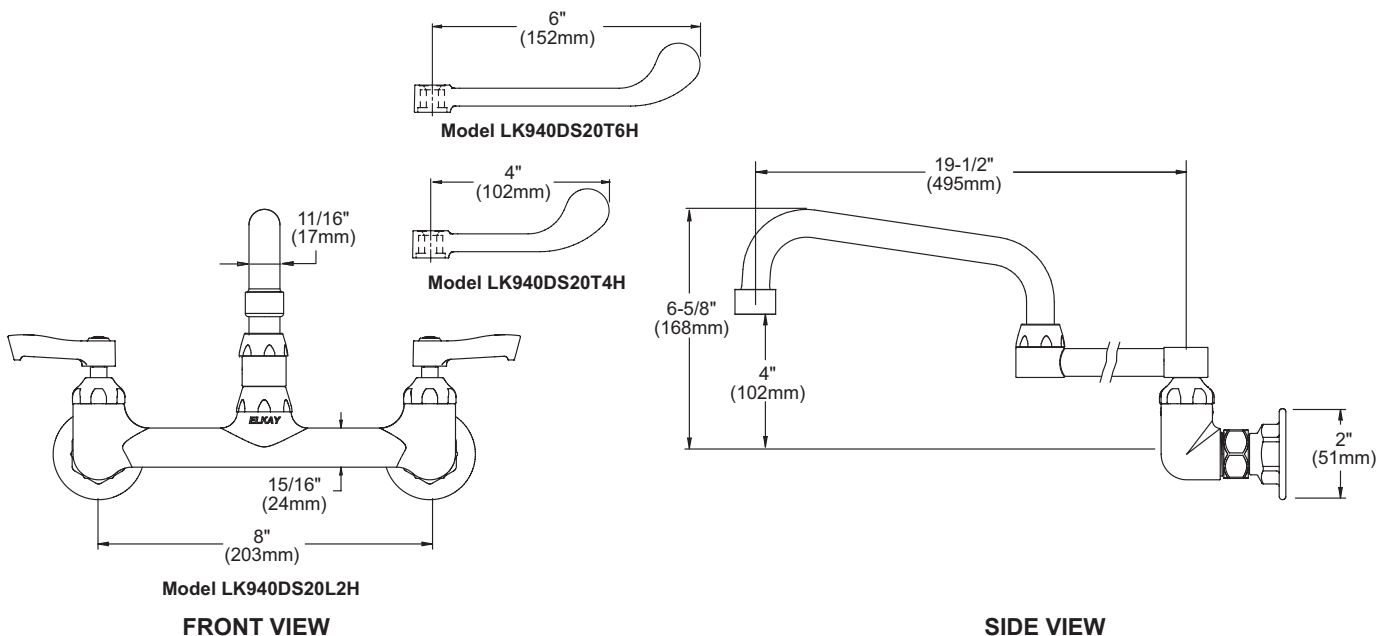
Model LK940DS20T6H

- Same as LK940DS20L2H except with 6" wrist blades handles

COMPLIES WITH:

- ASME/ANSI A112.18.1
- CSA B125-01
- NSF/ANSI 61 Annex G
- ADA
- UPC/CUPC
- IAPMO Listed
- Certified AB1953

Wall Mount 8" Center Commercial Faucet Models LK940DS20L2H, LK940DS20T4H, LK940DS20T6H



Job Name:

Item #:

Notes:

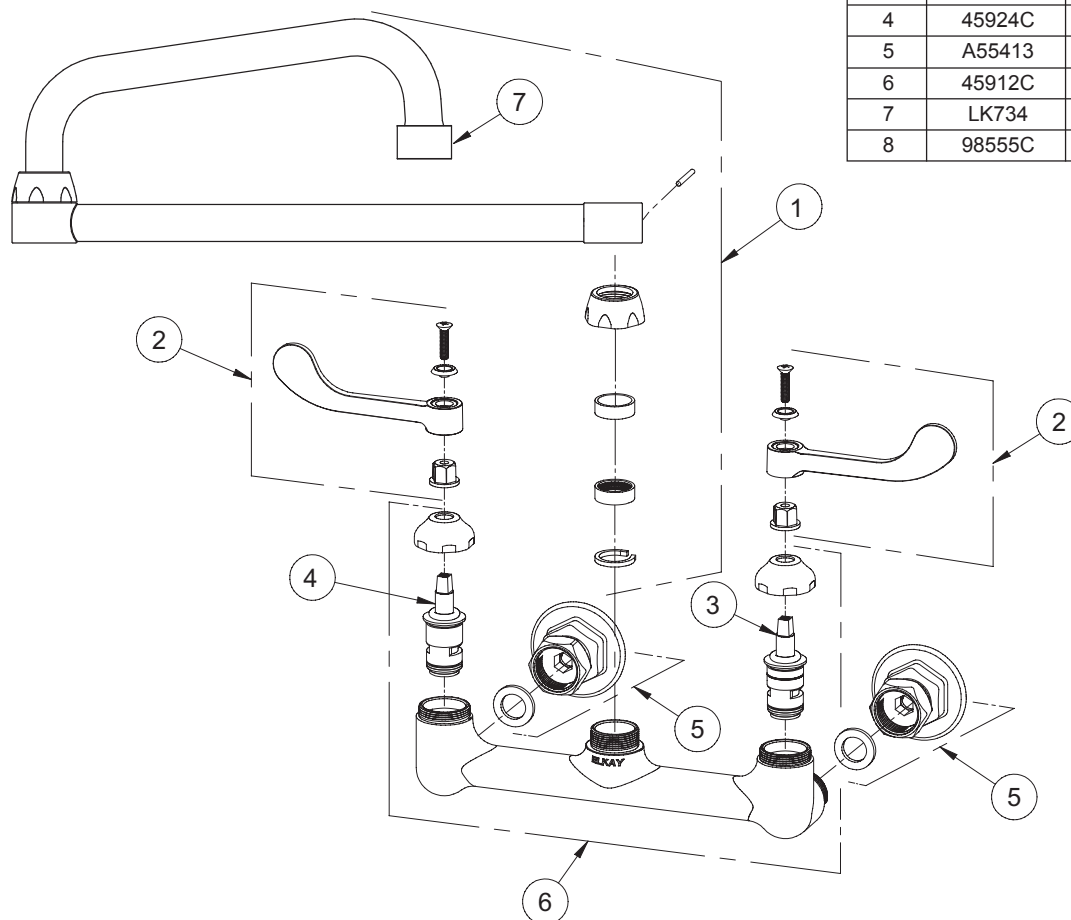
Architect/Engineer Approval:

Date:

SEE OTHER SIDE FOR REPLACEMENT PARTS

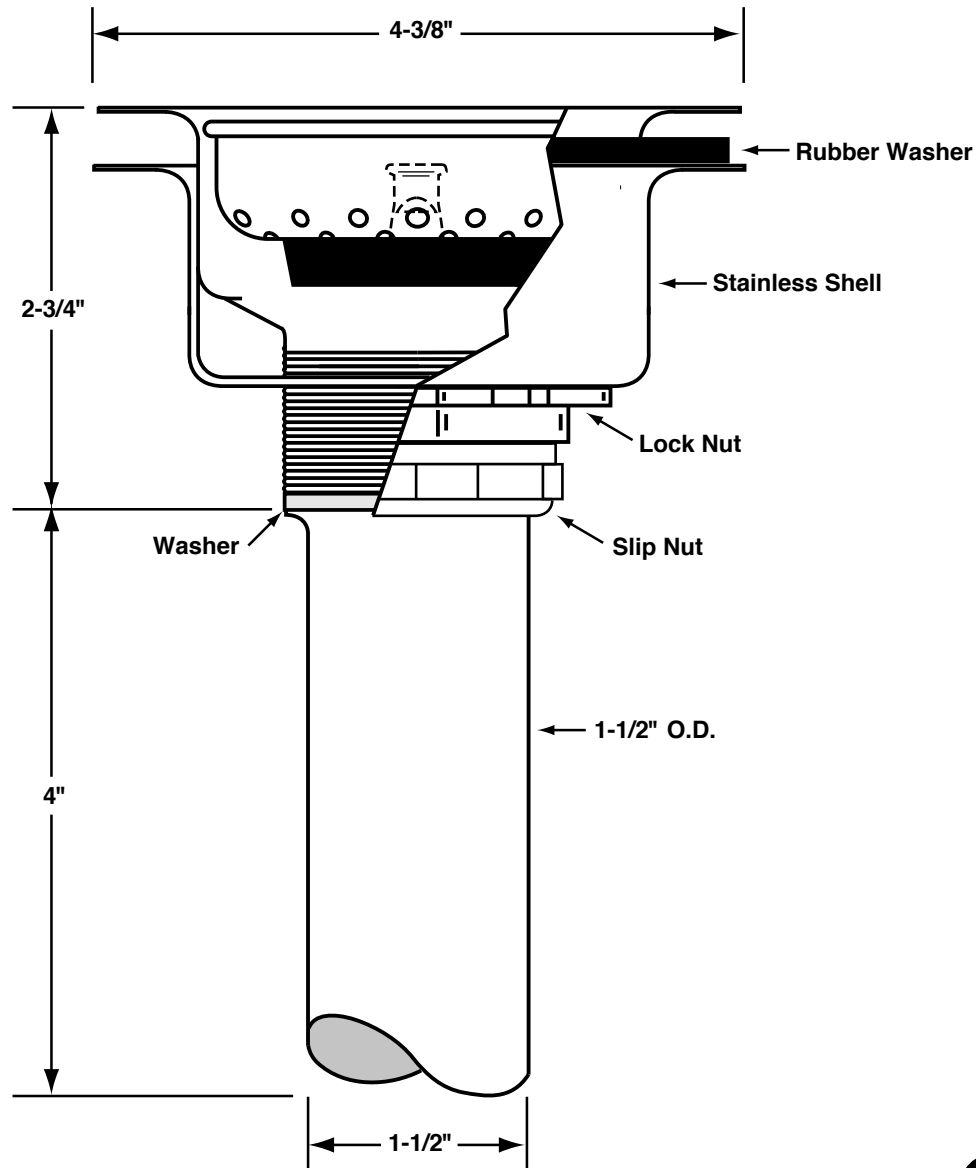
Wall Mount 8" Center Commercial Faucet Models LK940DS20L2H, LK940DS20T4H, LK940DS20T6H

ITEM	IND. PART	DESCRIPTION
1	A55411	Spout
2	45918C	Handle, 2"
2	45919C	Handle, 4"
2	45920C	Handle, 6"
3	45923C	Right Cold Cartridge
4	45924C	Left Hot Cartridge
5	A55413	1/2" Adjustable Inlet
6	45912C	Body
7	LK734	2.2 GPM VR Aerator
8	98555C	V.B. Repair Kit




McGuire Manufacturing Co., Inc.

60 Grandview Court
P.O. Box 746 • Cheshire, CT 06410
203-699-1801 • Fax: 203-699-1813
www.mcguiremfg.com

PRODUCT SPECIFICATION
Part No.
151A
**Stainless Steel
Basket Strainer**
Job Name:
Submittal Number:


See options and accessories section for details on product variations.

Specifications:

Heavy Duty Forged Stainless Steel Basket Strainer with 1-1/2" x 4" seamless brass tailpiece, die cast slip and lock nuts. Basket Strainer shall be in compliance with CSA or other recognized testing authority and bear both manufacturer and testing mark.

19488



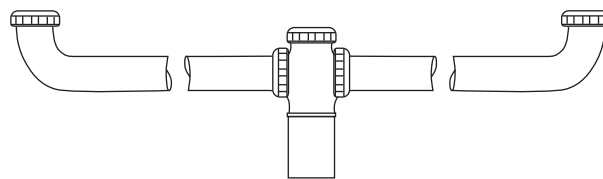
Continuous Waste Drain Connection for a 3 Compartment Sink with Center Outlet Model LK60

ELKAY®

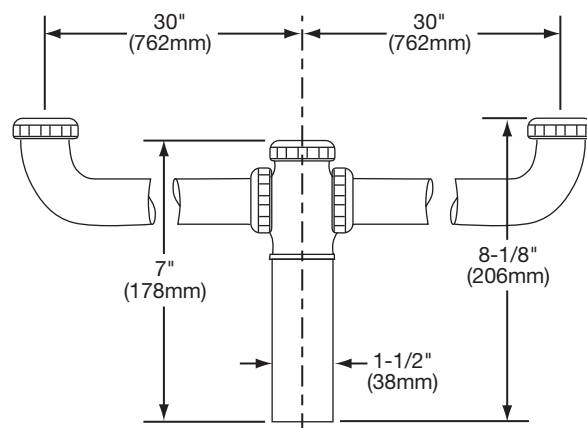
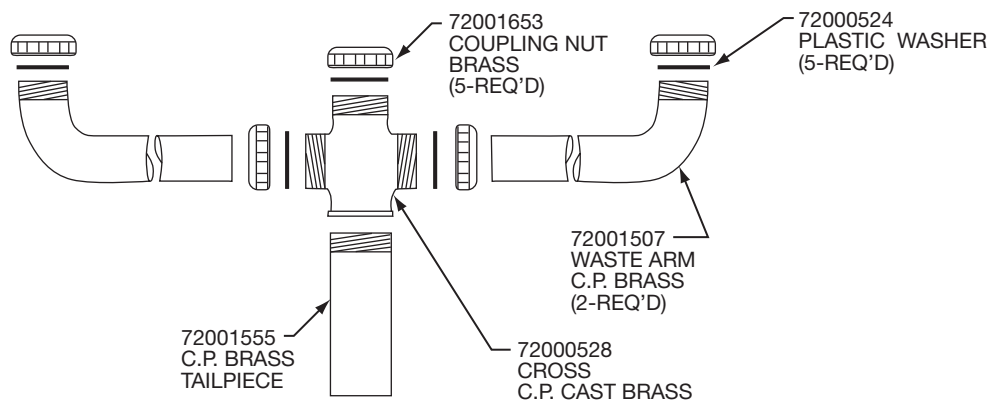
SPECIFICATIONS

GENERAL

LK60 Satin chrome plated brass 1-1/2" (38mm) O.D. continuous waste for a three compartment sink with center outlet. 30" (762mm) center to center outlet. Brass coupling nuts and 1-1/2" (38mm) O.D. x 4" (102mm) chrome plated brass tail-piece. Ship. Wt. 5 lbs.



Model LK60




T&S BRASS AND BRONZE WORKS, INC.

2 SADDLEBACK COVE / P.O. BOX 1088 / TRAVELERS REST, SC 29690

PHONE 800-476-4103

FAX 864- 834-3518



Model No.

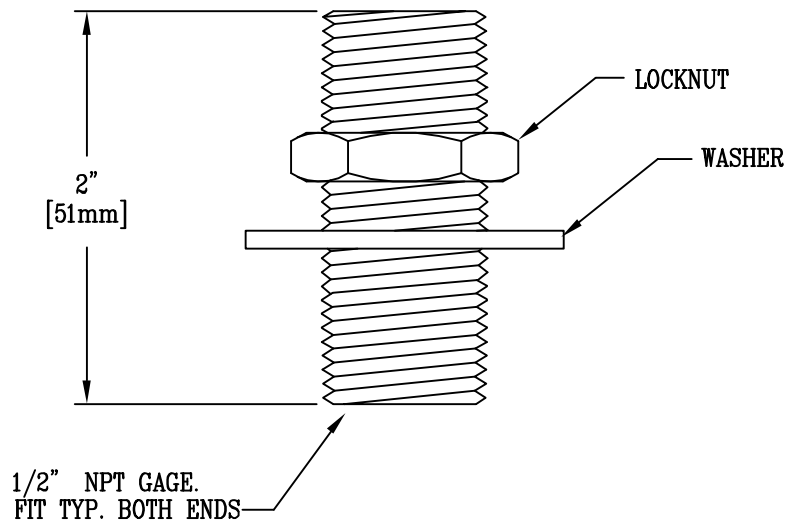
B-0425

Item No.:

Job Name:

Architect/Engineer Approval:

Notes:



Product Description:

SUPPLY NIPPLE UNIT 1/2" X 2"

Drawn:

MCW

Approved

CA

Checked

ARD

Scale:

1' = 1'

Date:

2/12/9



111729

S-3



ELKAY®

SPECIFICATIONS

Gourmet Single Bowl Sinks Models PSR and PSRQ Series, and PSRADQ – A.D.A. Compliant Series

GENERAL

Fine quality sink formed of #20 gauge, type 304 (18-8) nickel bearing stainless steel. Top mount.

DESIGN FEATURES

Bowl Depth: 7-1/4" (184mm) (PSRS(Q)3322), 7-1/2" (191mm) (PSR(Q)2521 and PSR(Q)2522), 5-1/2" (140mm) (PSRADQ1919), 7-1/8" (181mm) (all others).

Coved Corners: 1-3/4" (44mm) vertical and horizontal radius.

Rim Height: 3/8" (10mm) PSR(Q)2522; 5/32" (4mm) all others

Finish: Exposed surfaces are polished to a Bright Satin finish.

Underside: Fully undercoated to dampen sound and reduce condensation.

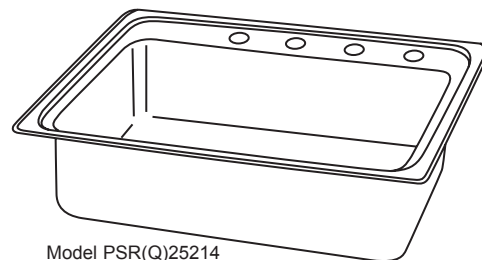
OTHER

Drain Opening: 3-1/2" (89mm) (see back page for location).

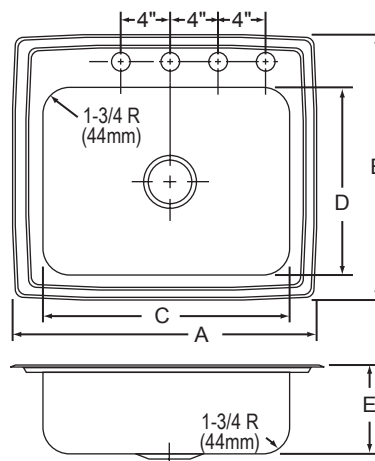
Sink complies with ASME A112.19.3-2008 / CSA B45.4-08.



These sinks are listed by the International Association of Plumbing and Mechanical Officials as meeting the requirements of the Uniform Plumbing Code.



Model PSR(Q)25214



SINK DIMENSIONS (INCHES)*

U-Channel Model Number	Quick-Clip® Model Number	Overall		Inside Each Bowl			Cutout in Countertop (1-1/2" (38mm) Radius Corners)		No. of 1-1/2" (38mm) Dia. Faucet Holes 4" (102mm) Center	Minimum Cabinet Size
		L	W	L	W	D	L	W		
		A	B	C	D	E				
PSR1517	PSRQ1517	15 (381mm)	17-1/2 (445mm)	12 (305mm)	12 (305mm)	7-1/8 (181mm)	14-3/8 (365mm)	16-7/8 (429mm)	1, 2, MR2 or 3	18
PSR1716	PSRQ1716	17 (432mm)	16 (406mm)	14 (356mm)	10 (254mm)	7-1/8 (181mm)	16-3/8 (416mm)	15-3/8 (391mm)	1, 2, MR2, 3 or OS4	21
PSR1720	PSRQ1720	17 (432mm)	20 (508mm)	14 (356mm)	14 (356mm)	7-1/8 (181mm)	16-3/8 (416mm)	19-3/8 (492mm)	1, 2, MR2, 3 or OS4	21
PSR1722	PSRQ1722	17 (432mm)	22 (559mm)	13-1/2 (343mm)	16 (406mm)	7-1/8 (181mm)	16-3/8 (416mm)	21-3/8 (543mm)	1, 2, MR2, 3 or OS4	21
PSR1918	PSRQ1918	19 (483mm)	18 (457mm)	16 (406mm)	11-1/2 (292mm)	7-1/8 (181mm)	18-3/8 (467mm)	17-3/8 (441mm)	1, 2, MR2, 3 or OS4	24
PSR2219	PSRQ2219	22 (559mm)	19-1/2 (495mm)	18 (457mm)	14 (356mm)	7-1/8 (181mm)	21-3/8 (543mm)	18-7/8 (479mm)	1, 2, MR2, 3, 4 or 5	27
PSR2222	PSRQ2222	22 (559mm)	22 (559mm)	19 (483mm)	16 (406mm)	7-1/8 (181mm)	21-3/8 (543mm)	21-3/8 (543mm)	1, 2, MR2, 3, 4 or 5	27
PSR2521	PSRQ2521	25 (635mm)	21-1/4 (540mm)	21 (533mm)	15-3/4 (400mm)	7-1/2 (191mm)	24-3/8 (619mm)	20-5/8 (524mm)	1, 2, MR2, 3, 4 or 5	30
PSR2522	PSRQ2522	25 (635mm)	22 (559mm)	21 (533mm)	15-3/4 (400mm)	7-1/2 (191mm)	24-3/8 (619mm)	21-3/8 (543mm)	1, 2, MR2, 3, 4 or 5	30
PSR3122	PSRQ3122	31 (787mm)	22 (559mm)	28 (711mm)	16 (406mm)	7-1/8 (181mm)	30-3/8 (772mm)	21-3/8 (543mm)	1, 2, MR2, 3, 4 or 5	36
Not Available	PSRADQ191955L	19-1/2 (495mm)	19 (483mm)	16 (406mm)	13-1/2 (343mm)	5-1/2 (140mm)	18-7/8 (479mm)	18-3/8 (467mm)	1, 2, MR2, 3 or OS4	24
Not Available	PSRADQ191955R	19-1/2 (495mm)	19 (483mm)	16 (406mm)	13-1/2 (343mm)	5-1/2 (140mm)	18-7/8 (479mm)	18-3/8 (467mm)	1, 2, MR2, 3 or OS4	24
PSRS3322	PSRSQ3322	33 (838mm)	22 (559mm)	28 (711mm)	16 (406mm)	7-1/4 (184mm)	32-3/8 (822mm)	21-3/8 (543mm)	1, 2, MR2, 3, 4 or 5	36

*Length is left to right. Width is front to back.

THIS PRODUCT AS CONSTRUCTED IS SUBJECT TO INTERPRETATION OF A.D.A. REQUIREMENTS.
THE UNOBSTRUCTED KNEE SPACE REQUIRED TO SATISFY A.D.A. STANDARDS MAY NOT BE DESIRABLE.

In keeping with our policy of continuing product improvement, Elkay reserves the right to change product specifications without notice.

This specification describes an Elkay product with design, quality and functional benefits user. When making a comparison of other producers' offerings, be certain these features are overlooked.

Elkay

elkayusa.com

2222 Camden Court
Oak Brook, IL 60523

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(Rev. 7/10) 1-1

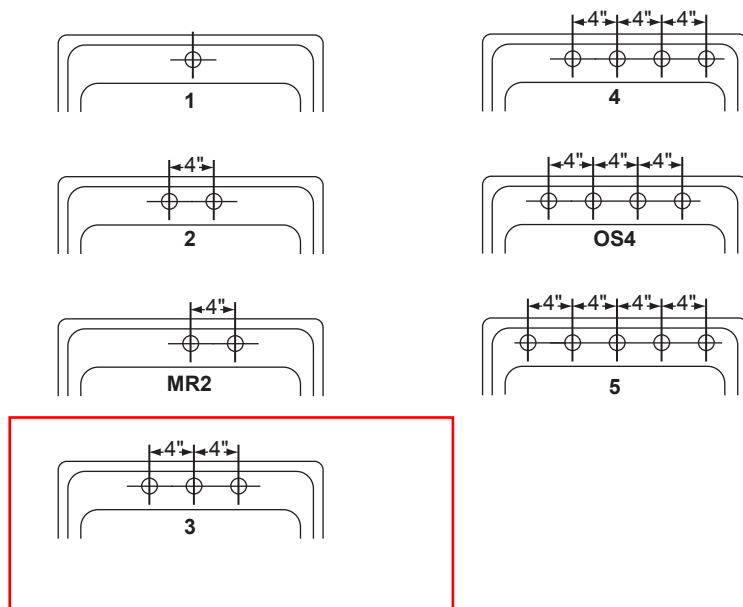
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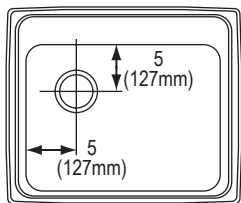
Gourmet Single Bowl Sinks
Models PSR and PSRQ Series,
and PSRADQ – A.D.A. Compliant Series

ELKAY®
SPECIFICATIONS

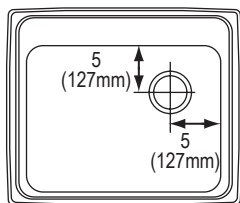
HOLE DRILLING CONFIGURATIONS



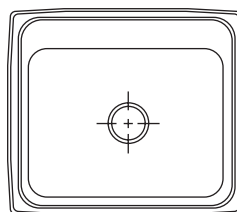
DRAIN OPENING LOCATIONS



Off-Centered Left
 PSRADQ191955L Model Only

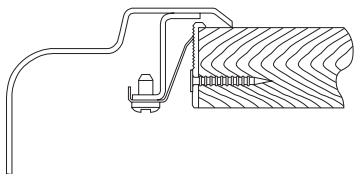


Off-Centered Right
 PSRADQ191955R Model Only

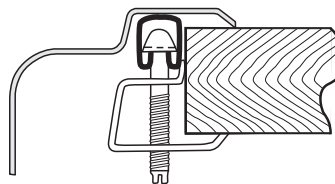


Centered
 (All Other Models)

Quick-Clip® Mounting System



U-Channel Type Mounting System



56870

Cast Deckmount Sink Faucets 8" Centers

TECK®


DELTA
COMMERCIAL
Specification: (example)

- **HEAVY DUTY CAST BRASS** sink faucet
- 203mm (8") center two handle
- Polished chrome plated finish
- **BRASS** swing spout or 3/8" IPS **BRASS PIPE** Rigid/Swivel Gooseneck Spout
- Metal hold-down package
- Color indexed metal handles with vandal resistant screws and ... with ... (add **CER-TECK®** 1/4 turn ceramic structures or **TUF-TECK®** compression structures)
- with ... (add spout required)
- with ... (add outlet required)
- with ... (add handle required)
- with ... (add suffix **-LS** if required – See Back Page)
- with ... (add suffix **-TI** if required – See Back Page)

26C3944
26T3944

26C3133
26T3133
Engineer/Architect Approval

Model Specified:












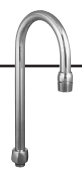
Approval:

Date:

332331

DESCRIPTION		PRODUCT NO.			
CAST Deckmount	CER-TECK®	26C3	9	3	4
	TUF-TECK®	26T3			




SPOUT		OUTLET		HANDLE	
	✓		✓		✓
0	<input type="checkbox"/>	0	<input type="checkbox"/>	0	<input type="checkbox"/>
1 203mm (8") Wallform (S2) Swing Spout (2) 	<input type="checkbox"/>	1	<input type="checkbox"/>	1 Five Flute Handles 	<input type="checkbox"/>
2 203mm (8") Tubular (S5) Swing Spout (2) 	<input type="checkbox"/>	2 Vandal Resistant 1.5 USGPM (5.7 L/min.) Laminar w/Agion® Antimicrobial 	<input type="checkbox"/>	2 102mm (4") Hooded Blade Handles (5) 	<input type="checkbox"/>
3	<input type="checkbox"/>	3 Vandal Resistant 1.5 USGPM (5.7 L/min.) Flow Control Aerator 	<input checked="" type="checkbox"/>	3 76mm (3") Lever Blade Handles (5) 	<input type="checkbox"/>
4	<input type="checkbox"/>	4 Standard 1.5 USGPM (5.7 L/min.) Flow Control Aerator 	<input type="checkbox"/>	4 102mm (4") Blade Handles, Sanitary Hoods (5) 	<input checked="" type="checkbox"/>
5	<input type="checkbox"/>	5	<input type="checkbox"/>	5 152mm (6") Wrist Handles, Sanitary Hoods 	<input type="checkbox"/>
6	<input type="checkbox"/>	6	<input type="checkbox"/>	6	<input type="checkbox"/>
7	<input type="checkbox"/>	7 Smooth End, Laminar Flow Control in Base of Gooseneck Spout 1.1 USGPM (4.2L/min.) (3) 	<input type="checkbox"/>	7	<input type="checkbox"/>
8	<input type="checkbox"/>	8	<input type="checkbox"/>	8	<input type="checkbox"/>
9 Heavy Duty 152mm (6") Bend Rigid/Swivel (R4) Gooseneck Spout (1) (4) 	<input checked="" type="checkbox"/>	9	<input type="checkbox"/>	9	<input type="checkbox"/>

- (1) See Page 9.C.1 for **Optional Rigid/Swivel Spouts**. These spouts can ONLY be added to **SPOUT Option No. 9**. (5) H & C Temperature Indicator Available, Add Suffix **-TI**. Flowrates Refer to www.specselect.com for indi
- (2) See Page 9.C.2 for **Optional Swing Spouts**. These spouts can ONLY be added to **SPOUT Option No. 2**.
- (3) This outlet can ONLY be added to **SPOUT Option No. 9**. (4) 120° Limited Swing Spout Available. Add Suffix **-LS**.

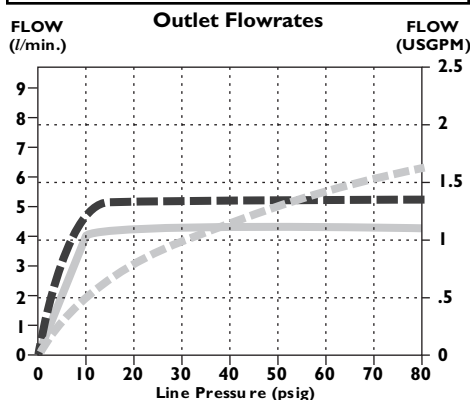
Delta reserves the right (1) to make changes in specifications and materials, and (2) to change or discontinue models, both without notice or obligation. Dimensions are for reference only. See current full-line price book or www.specselect.com for finish options and product availability.

**Approvals:**

- CSA certified
 - Complies to ASME A112.18.1
 - Lever Blade Handles No. 2, 3, 4, and 5, ADA Compliant and meet Handicapped Accessibility Standard ASME A117.1  of less than 5 lbs. operating force.
 - IAPMO listed
- (Contact Delta Representative for State and/or Local Approvals.)

HANDLE TEMPERATURE INDICATORS

- ☐ Add suffix **“-TI”** to Product Number for handle temperature indicators “H” (red), “C” (blue). Available on handle options 2, 3, or 4 only.

**FLOWRATE vs PRESSURE****Spout Outlets**

- No. 3 & 4 Aerator
- No. 2 Laminar Flow Outlet
- No. 7 Flow Control

OUTLET NO.	“D”	
	mm	in.
2	18	0.69
3	18	0.69
4	17	0.67

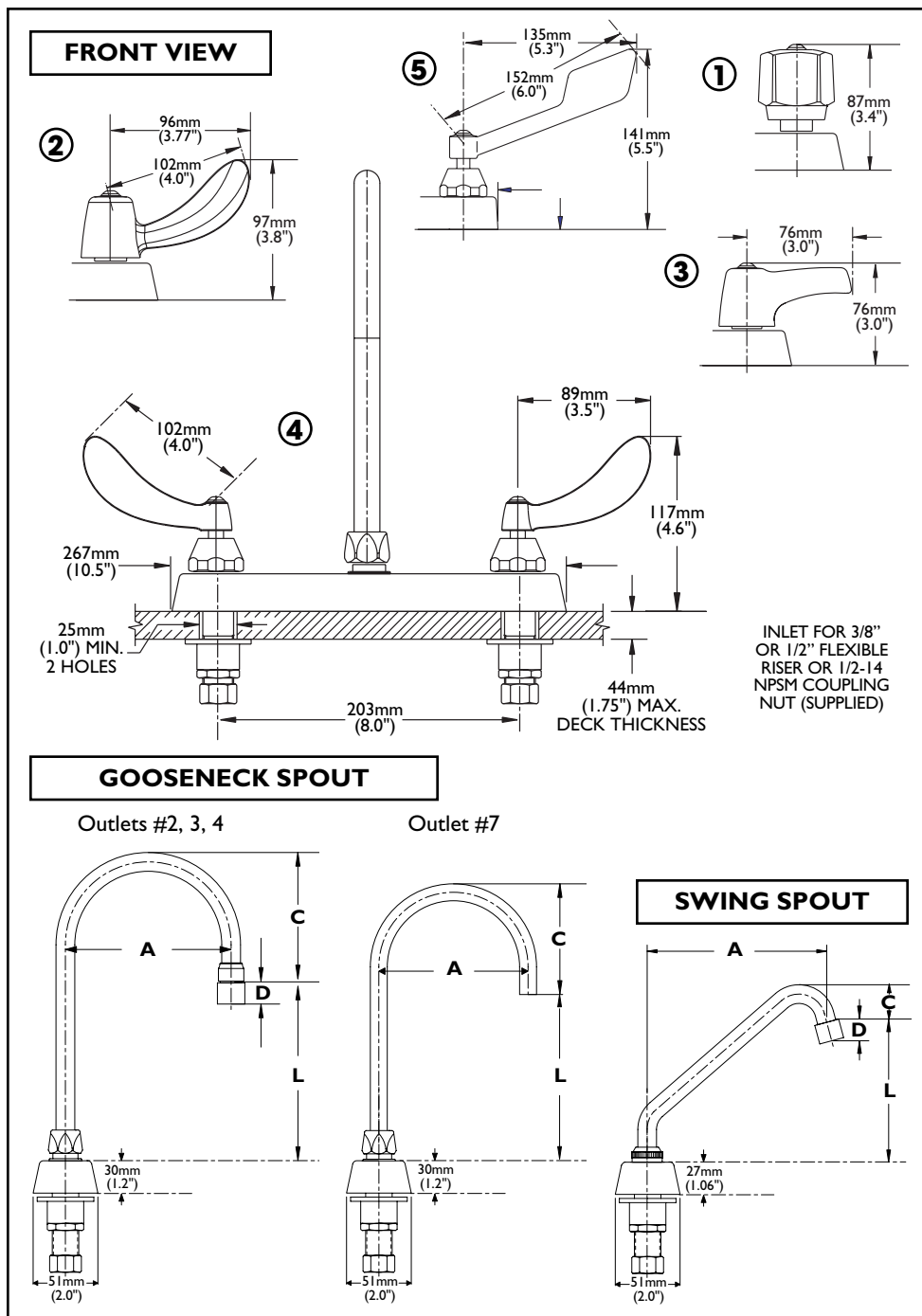
LIMITED SWING GOOSENECK

- ☐ Add suffix **“-LS”** to Product Number for 120° Limited Swing

INLETS - 1/2" MIP/Coupling Nuts

Note: Measurements may vary $\pm 6\text{mm}$ (0.25")

Refer to www.specselect.com for individual models.

TECK®**Cast Deckmount Sink Faucets
8" Centers**

See Page 9.C.1 for additional optional spouts.

See Page 9.C.2 for additional optional spouts.

GOOSENECK SPOUT ASSEMBLIES

SPOUT/OUTLET	“A”		“C”		“L”	
	mm	in.	mm	in.	mm	in.
Gooseneck-Standard (R4) for outlets #2, 3, 4	152	6	124	4.9	146	5.8
Gooseneck-Standard (R4) for outlets #7	152	6	117	4.6	152	6.0

SWING SPOUT ASSEMBLIES

Spout No.	SPOUT TYPE	“A”		“C”		“L”	
		mm	in.	mm	in.	mm	in.
1	8" Wallform Spout (S2)	206	8.1	15	0.6	130	5.
2	8" Tubular Spout (S5)	185	7.3	41	1.6	147	5.

Note: Use this page front and back as a product submittal sheet

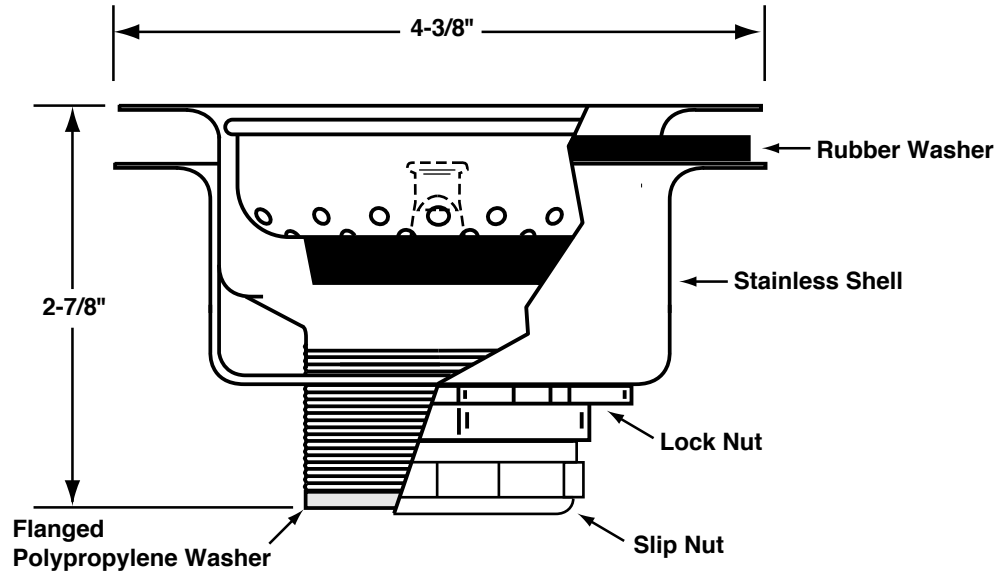
Delta reserves the right (1) to make changes in specifications and materials, and (2) to change or discontinue models, both without notice or obligation. Dimensions are for reference only. See current full-line price book or www.specselect.com for finish options and product availability.

332331




McGuire Manufacturing Co., Inc.

60 Grandview Court
P.O. Box 746 • Cheshire, CT 06410
203-699-1801 • Fax: 203-699-1813
www.mcguiremfg.com

PRODUCT SPECIFICATION
Part No.
151AECO
**Stainless Steel
Basket Strainer**
Job Name:
Submittal Number:

Specifications:

Heavy Duty Forged Stainless Steel Basket Strainer with metal stem, lock and coupling nuts.

198713





**Dearborn®
Brass**

4675 W. 160th St.
Cleveland, Ohio 44135
Ph: (800) 321-9532
Fax: (800) 321-9535
www.dearbornbrass.com

SUBMITTAL SPECIFICATION

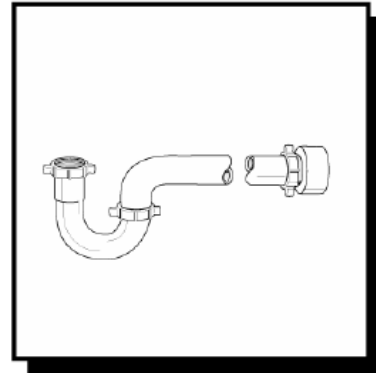
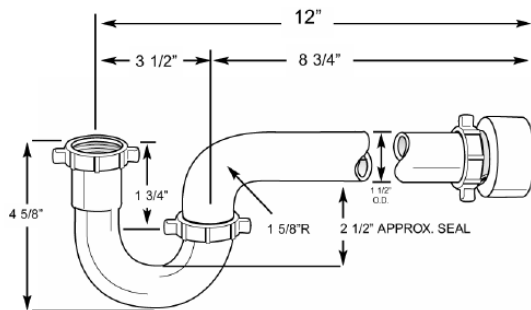
**PLASTIC TUBULAR
1-½" P-TRAP WITH THREADED ADAPTER**

Engineering Specification: Dearborn Brass Plastic Tubular 1-½" P-Traps with Threaded Adapter are designed for use in tubular drain applications. Options include PVC or ABS plastic adapter and True Blue Premium Washers for superior sealing. Available in white or black polypropylene plastic.

Job Reference

DESCRIPTION

- Made of polypropylene plastic
- Plastic Tubular P-Trap with Threaded Adapter
 - Plastic Tubular Quarter Bend
 - Plastic Tubular J-Bend
 - Schedule 40 Threaded Adapter
 - (3) Slip Joint Nuts
 - (1) 1-½" Washer
 - (1) 1-¼" x 1-½" Reducing Washer
- Reversible P-Trap includes reversible J-Bend
- Deep Flange P-Trap includes plastic deep flange



- Meets ASTM F 409
- IAPMO Listed



✓	Product No.	Description	Carton Quantity	Carton Weight (lbs)
	P9703W	1-½" P-Trap w/ Threaded PVC Adapter with True Blue Premium Washers – White		
	P9703BG	1-½" P-Trap w/ Threaded PVC Adapter & Reversible J-Bend – White, Bagged	25	19.4
	A9703WBG	1-½" P-Trap w/ Threaded PVC Adapter & Reversible J-Bend with True Blue Premium Washers –Black, Bagged	25	19.4
	P9704	1-½" P-Trap w/ Threaded PVC Adapter – White	25	11.8
	A9704	1-½" P-Trap w/ Threaded ABS Adapter – Black	25	11.7
	P9704A	1-½" P-Trap w/ Threaded ABS Adapter – White	25	11.8
	P9704AB	1-½" P-Trap w/ Threaded ABS Adapter – White, Bagged	25	19.2
	P9704BG	1-½" P-Trap w/ Threaded PVC Adapter – White, Bagged	25	19.4
	P9704AWB	1-½" P-Trap w/ Threaded ABS Adapter & Reversible J-Bend with True Blue Premium Washers – White, Bagged	25	19.4
	A9704B	1-½" P-Trap w/ Threaded ABS Adapter – Black, Bagged	25	19.3
	P9704DF	1-½" P-Trap w/ Threaded PVC Adapter & Deep Flange– White	25	12.8
	A9704DF	1-½" P-Trap w/ Threaded ABS Adapter & Deep Flange – Black	25	12.6
	P9704DFB	1-½" P-Trap w/ Threaded PVC Adapter & Deep Flange – White, Bagged	25	21.2
	A9704WB	1-½" P-Trap w/ Threaded ABS Adapter & Reversible J-Bend with True Blue Premium Washers – Black, Bagged	25	19.4



For Residential and Commercial Applications


Job Name		Engineer / Architect	
Job Location		Wholesaler	
Submittal Date		Contractor	

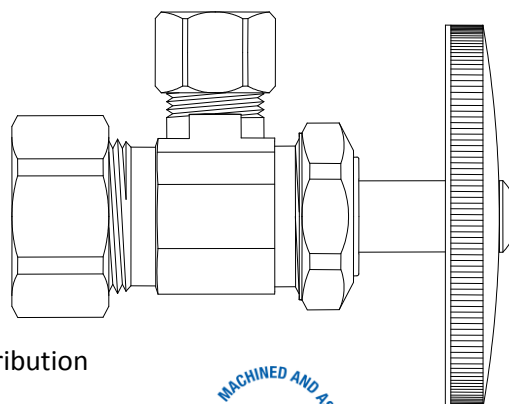
OCR1B/ OCR3B & OCR09/ OCR19/ OCR39/ OCR49

Multi-Turn Angle Stop – Compression x Compression

Use: For use in potable water distribution systems. Not intended for recirculating water systems that produce continuous use temperatures above 115° F. For those applications, use our KT™ series ball stops.

Design Features:

- **Machined one-piece brass body** provides strength, durability, and long-lasting performance
- **Oval knurled handle** provides a secure grip and smooth on/off operation
- **Easy-to-remove handle** with screw attachment helps protect against accidental stop operation during rough-ins
-  **No Lead**
- **For use with** ASTM F876 PEX tubing, in ASTM F877 water distribution systems (parts containing PX and PXX only)
- **For use in** ASTM F877 water distribution systems as noted in Appendixes (parts containing PX and PXX only)



Operating Specifications:

Temperature: 40° - 140° F

Pressure: 125 PSI maximum

Standard

STOP MATERIAL SPECIFICATIONS	
Body	Brass or brass, chrome plated
Stem	POM; brass; or brass, chrome plated
Bib & Packing Washer	Rubber
Packing Nut	Brass or brass, chrome plated
Handle	Zinc die cast, plated; ABS, plated; or Polycarbonate
Handle Screw	Zinc-plated steel
Compression Nut	Brass or brass, chrome plated
Compression Sleeve	Brass
PEX Insert*	Stainless steel

*Where specified

No Lead

STOP MATERIAL SPECIFICATIONS	
Body	No-Lead brass or No-Lead brass, chrome plated
Stem	POM; No-Lead brass; or No-Lead brass, chrome plated
Bib & Packing Washer	Rubber
Packing Nut	Brass or brass, chrome plated
Handle	Zinc die cast, plated; ABS, plated; or Polycarbonate
Handle Screw	Zinc-plated steel
Compression Nut	Brass or brass, chrome plated
Compression Sleeve	Brass
PEX Insert*	Stainless steel

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400.28 OCR09/19/39 Multi-Turn Angle Stop - Compr x Compr REV 08/13

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OCR1B/ OCR3B & OCR09/ OCR19/ OCR39/ OCR49

Multi-Turn Angle Stop – Compression x Compression

Standard Part Listing (con't):

<input type="checkbox"/>	OCR39 R1	1/2" nom compression x 1/2" OD compression, rough brass, window box
<input type="checkbox"/>	OCR39Z C	1/2" nom compression x 1/2" OD compression, brass stem, chrome plated
<input type="checkbox"/>	OCR49 C	1/2" nom compression x 5/8" OD compression, chrome plated
<input type="checkbox"/>	OCR49 R	1/2" nom compression x 5/8" OD compression, rough brass
<input type="checkbox"/>	OCR49Z C	1/2" nom compression x 5/8" OD compression, brass stem, chrome plated

No-Lead Part Listing:

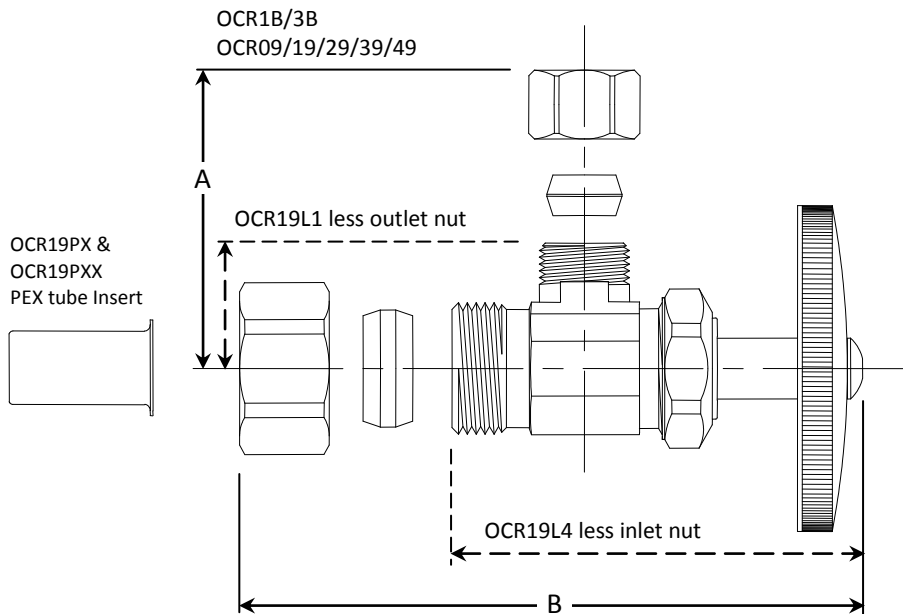
<input type="checkbox"/>	OCR09X C	1/2" nom compression x 1/4" OD compression, chrome plated
<input type="checkbox"/>	OCR09X C1	1/2" nom compression x 1/4" OD compression, chrome plated, window box
<input type="checkbox"/>	OCR1BX C	3/8" nom compression x 3/8" OD compression, chrome plated
<input type="checkbox"/>	OCR1BX C1	3/8" nom compression x 3/8" OD compression, chrome plated, window box
<input type="checkbox"/>	OCR3BX C	3/8" nom compression x 1/2" OD compression, chrome plated
<input type="checkbox"/>	OCR09X C	1/2" nom compression x 1/4" OD compression, chrome plated
<input type="checkbox"/>	OCR09X C1	1/2" nom compression x 1/4" OD compression, chrome plated, window box
<input type="checkbox"/>	OCR09X CBT	1/2" nom compression x 1/4" OD compression, chrome plated, bulk
<input type="checkbox"/>	OCR09X R	1/2" nom compression x 1/4" OD compression, rough brass
<input type="checkbox"/>	OCR09ZX C	1/2" nom compression x 1/4" OD compression, brass stem, chrome plated
<input type="checkbox"/>	OCR19X C	1/2" nom compression x 3/8" OD compression, chrome plated
<input type="checkbox"/>	OCR19X C1	1/2" nom compression x 3/8" OD compression, chrome plated, window box
<input type="checkbox"/>	OCR19X R	1/2" nom compression x 3/8" OD compression, rough brass
<input type="checkbox"/>	OCR19X R1	1/2" nom compression x 3/8" OD compression, rough brass, window box
<input type="checkbox"/>	OCR19X BZ	1/2" nom compression x 3/8" OD compression, oil rubbed bronze
<input type="checkbox"/>	OCR19X NP	1/2" nom compression x 3/8" OD compression, polished nickel
<input type="checkbox"/>	OCR19X NS	1/2" nom compression x 3/8" OD compression, satin nickel
<input type="checkbox"/>	OCR19X P	1/2" nom compression x 3/8" OD compression, polished brass
<input type="checkbox"/>	OCR19KL1X CB	1/2" nom compression x 3/8" OD compression, less outlet nut, plastic handle, chrome plated, bulk
<input type="checkbox"/>	OCR19L1X CB	1/2" nom compression x 3/8" OD compression, less outlet nut, chrome plated, bulk
<input type="checkbox"/>	OCR19L1X RB	1/2" nom compression x 3/8" OD compression, less outlet nut, rough brass, bulk
<input type="checkbox"/>	OCR19L4X C100T	1/2" nom compression x 3/8" OD compression, less inlet nut, chrome plated, 100 per case
<input type="checkbox"/>	OCR19PXX C	1/2" nom compression x 3/8" OD compression, PEX stainless steel insert, chrome plated
<input type="checkbox"/>	OCR19PXX R	1/2" nom compression x 3/8" OD compression, PEX stainless steel insert, rough brass
<input type="checkbox"/>	OCR19ZX C	1/2" nom compression x 3/8" OD compression, brass stem, chrome plated
<input type="checkbox"/>	OCR19ZX R	1/2" nom compression x 3/8" OD compression, brass stem, rough brass
<input type="checkbox"/>	OCR29X C	1/2" nom compression x 7/16" OD compression, chrome plated
<input type="checkbox"/>	OCR29X C1	1/2" nom compression x 7/16" OD compression, chrome plated, window box
<input type="checkbox"/>	OCR29X R	1/2" nom compression x 7/16" OD compression, rough brass
<input type="checkbox"/>	OCR39X C	1/2" nom compression x 1/2" OD compression, chrome plated
<input type="checkbox"/>	OCR39X CBT	1/2" nom compression x 1/2" OD compression, chrome plated, bulk
<input type="checkbox"/>	OCR39X C1	1/2" nom compression x 1/2" OD compression, chrome plated, window box
<input type="checkbox"/>	OCR39X R	1/2" nom compression x 1/2" OD compression, rough brass
<input type="checkbox"/>	OCR49X C	1/2" nom compression x 5/8" OD compression, chrome plated

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OCR1B/ OCR3B & OCR09/ OCR19/ OCR39/ OCR49

Multi-Turn Angle Stop – Compression x Compression



PART DIMENSIONS (Inches)		
Model	DIM A	DIM B
OCR1B	1.02	2.75
OCR3B	1.11	2.75
OCR09	1.02	2.75
OCR19	1.02	2.75
OCR19K	1.02	2.75
OCR19L1	0.74	2.75
OCR19L4	1.02	2.41
OCR19P	1.02	2.41
OCR19PX	1.02	2.41
OCR29	1.18	2.85
OCR39	1.11	2.85
OCR49	1.18	2.97

Listings & Certifications:

- IAPMO listed to ASME A112.18.1 / CSA B125.1 (File # 0645)
- CSA listed to ASME A112.18.1 / CSA B125.1 (File # 204593)
- No-Lead product CSA listed to Low Lead Content Certification Program – Plumbing Products Class 6853-01



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400.28 OCR09/19/39 Multi-Turn Angle Stop - Compr x Compr REV 08/13

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For Residential and Commercial Applications

Job Name		Engineer / Architect	
Job Location		Wholesaler	
Submittal Date		Contractor	

1-**A/ 3-**A Copper Faucet Riser - One-Piece with Insert

Use: For use in potable water distribution systems in accessible locations only.

Design Features:

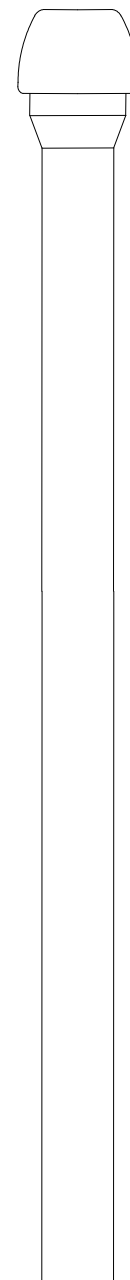
- **One-piece** construction
- **Cut-to-Length** for clean, professional installation
- **100% Compliant** 

Operating Specifications:

Temperature: 40° - 180° F

Pressure: 125 PSI maximum

Tubing Diameter: 3/8" OD or 1/2" OD



MATERIAL SPECIFICATIONS

Tube	Copper per ASTM B-68
Insert	POM
Optional Brass Nosepiece	Brass
Optional Cone Washer	Rubber
Optional Brass Ring	Brass

Part Listing:

<input type="checkbox"/> 1-12A C	3/8" OD tube x 11-1/2" length, chrome plated
<input type="checkbox"/> 1-12A CBT	3/8" OD tube x 11-1/2" length, chrome plated, plain package, bulk
<input type="checkbox"/> 1-12A C2	3/8" OD tube x 11-1/2" length, chrome plated, 2 pack
<input type="checkbox"/> 1-12A R	3/8" OD tube x 11-1/2" length, rough finish
<input type="checkbox"/> 1-12A RBT	3/8" OD tube x 11-1/2" length, rough finish, plain package, bulk
<input type="checkbox"/> 1-12A R2	3/8" OD tube x 11-1/2" length, rough finish, 2 pack
<input type="checkbox"/> 1-12AS C	3/8" OD tube x 11-1/2" length, brass nosepiece, chrome plated
<input type="checkbox"/> 1-12AS R	3/8" OD tube x 11-1/2" length, brass nosepiece, rough finish
<input type="checkbox"/> 1-12A BZP	3/8" OD tube x 11-1/2" length, oil rubbed bronze, bagged
<input type="checkbox"/> 1-12A NPP	3/8" OD tube x 11-1/2" length, polished nickel, bagged
<input type="checkbox"/> 1-12A NSP	3/8" OD tube x 11-1/2" length, satin nickel, bagged
<input type="checkbox"/> 1-15A C	3/8" OD tube x 14-1/2" length, chrome plated
<input type="checkbox"/> 1-15A CBT	3/8" OD tube x 14-1/2" length, chrome plated, plain package, bulk
<input type="checkbox"/> 1-15A C2	3/8" OD tube x 14-1/2" length, chrome plated, 2 pack
<input type="checkbox"/> 1-15A R	3/8" OD tube x 14-1/2" length, rough finish
<input type="checkbox"/> 1-15A RBT	3/8" OD tube x 14-1/2" length, rough finish, plain

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400.200 1-**A/ 3-**A Copper Faucet Riser - One-Piece with Insert REV 10/12

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Product Submittal Form 4342

1-**A/ 3-**A Copper Faucet Riser - One-Piece with Insert

Part Listing (con't):

<input type="checkbox"/>	1-20A C	3/8" OD tube x 19-1/2" length, chrome plated
<input type="checkbox"/>	1-20A CBT	3/8" OD tube x 19-1/2" length, chrome plated, plain package, bulk
<input type="checkbox"/>	1-20A CF	3/8" OD tube x 19-1/2" length, chrome plated, flag label
<input type="checkbox"/>	1-20A C2	3/8" OD tube x 19-1/2" length, chrome plated, 2 pack
<input type="checkbox"/>	1-20A R	3/8" OD tube x 19-1/2" length, rough finish
<input type="checkbox"/>	1-20A RBT	3/8" OD tube x 19-1/2" length, rough finish, plain package, bulk
<input type="checkbox"/>	1-20A R2	3/8" OD tube x 19-1/2" length, rough finish, 2 pack
<input type="checkbox"/>	1-20AS C	3/8" OD tube x 19-1/2" length, brass nosepiece, chrome plated
<input type="checkbox"/>	1-20AS R	3/8" OD tube x 19-1/2" length, brass nosepiece, rough finish
<input type="checkbox"/>	1-20A BZP	3/8" OD tube x 19-1/2" length, oil rubbed bronze, bagged
<input type="checkbox"/>	1-20A NPP	3/8" OD tube x 19-1/2" length, polished nickel, bagged
<input type="checkbox"/>	1-20A NSP	3/8" OD tube x 19-1/2" length, satin nickel, bagged
<input type="checkbox"/>	1-20A PP	3/8" OD tube x 19-1/2" length, polished brass, bagged
<input type="checkbox"/>	1-30A C	3/8" OD tube x 29-1/2" length, chrome plated
<input type="checkbox"/>	1-30A CBT	3/8" OD tube x 29-1/2" length, chrome plated, plain package, bulk
<input type="checkbox"/>	1-30A C2	3/8" OD tube x 29-1/2" length, chrome plated, 2 pack
<input type="checkbox"/>	1-30A R	3/8" OD tube x 29-1/2" length, rough finish
<input type="checkbox"/>	1-30A RBT	3/8" OD tube x 29-1/2" length, rough finish, plain package, bulk
<input type="checkbox"/>	1-30A R2	3/8" OD tube x 29-1/2" length, rough finish, 2 pack
<input type="checkbox"/>	1-30AS C	3/8" OD tube x 29-1/2" length, brass nosepiece, chrome plated
<input type="checkbox"/>	1-30AS R	3/8" OD tube x 29-1/2" length, brass nosepiece, rough finish
<input type="checkbox"/>	1-30A BZP	3/8" OD tube x 29-1/2" length, oil rubbed bronze, bagged
<input type="checkbox"/>	1-30A NSP	3/8" OD tube x 29-1/2" length, satin nickel, bagged
<input type="checkbox"/>	1-30A PP	3/8" OD tube x 29-1/2" length, polished brass, bagged
<input type="checkbox"/>	1-36A C	3/8" OD tube x 35-1/2" length, chrome plated
<input type="checkbox"/>	1-36A CBT	3/8" OD tube x 35-1/2" length, chrome plated, plain package, bulk
<input type="checkbox"/>	1-36A C2	3/8" OD tube x 35-1/2" length, chrome plated, 2 pack
<input type="checkbox"/>	1-36A R	3/8" OD tube x 35-1/2" length, rough brass
<input type="checkbox"/>	1-36A RBT	3/8" OD tube x 35-1/2" length, rough brass, plain package, bulk
<input type="checkbox"/>	1-36A R2	3/8" OD tube x 35-1/2" length, rough brass, 2 pack
<input type="checkbox"/>	1-36AS C	3/8" OD tube x 35-1/2" length, brass nosepiece, chrome plated
<input type="checkbox"/>	3-12A C	1/2" OD tube x 11-1/2" length, chrome plated
<input type="checkbox"/>	3-12A CBT	1/2" OD tube x 11-1/2" length, chrome plated, plain package, bulk
<input type="checkbox"/>	3-12A C2	1/2" OD tube x 11-1/2" length, chrome plated, 2 pack
<input type="checkbox"/>	3-12A R	1/2" OD tube x 11-1/2" length, rough finish
<input type="checkbox"/>	3-12A R2	1/2" OD tube x 11-1/2" length, rough brass, 2 pack
<input type="checkbox"/>	3-20A C	1/2" OD tube x 19-1/2" length, chrome plated
<input type="checkbox"/>	3-20A CBT	1/2" OD tube x 19-1/2" length, chrome plated, plain package, bulk
<input type="checkbox"/>	3-20A C2	1/2" OD tube x 19-1/2" length, chrome plated, 2 pack

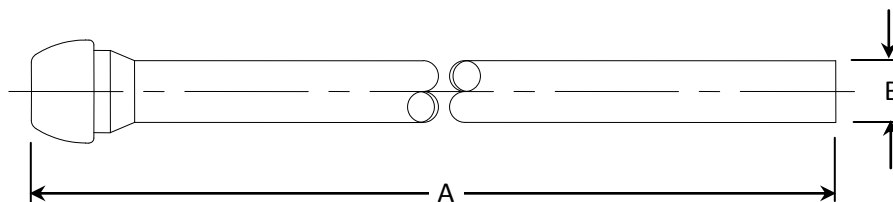
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1-**A/ 3-**A Copper Faucet Riser - One-Piece with Insert

Part Listing (con't):

<input type="checkbox"/>	3-20A R	1/2" OD tube x 19-1/2" length, rough finish
<input type="checkbox"/>	3-20A RBT	1/2" OD tube x 19-1/2" length, rough finish, plain package, bulk
<input type="checkbox"/>	3-30A C	1/2" OD tube x 29-1/2" length, chrome plated
<input type="checkbox"/>	3-30A RBT	1/2" OD tube x 29-1/2" length, rough finish, plain package, bulk
<input type="checkbox"/>	3-30A C2	1/2" OD tube x 29-1/2" length, chrome plated, 2 pack
<input type="checkbox"/>	3-30A R	1/2" OD tube x 29-1/2" length, rough finish
<input type="checkbox"/>	3-36A C	1/2" OD tube x 35-1/2" length, chrome plated
<input type="checkbox"/>	3-36A CBT	1/2" OD tube x 35-1/2" length, chrome plated, plain package, bulk
<input type="checkbox"/>	3-36A C2	1/2" OD tube x 35-1/2" length, chrome plated, 2 pack
<input type="checkbox"/>	3-36A R	1/2" OD tube x 35-1/2" length, rough brass
<input type="checkbox"/>	3-36C C	1/2" OD tube x 35-1/2" length, cone washer & brass ring, chrome plated



PART DIMENSIONS (Inches)		
Model	DIM. A	DIA. B
1-12A	11.63	3/8
1-12AS	11.63	3/8
1-15A	14.63	3/8
1-20A	19.63	3/8
1-20A	19.63	3/8
1-30A	29.63	3/8
1-30AS	29.63	3/8

PART DIMENSIONS (Inches)		
Model	DIM. A	DIA. B
1-36A	35.63	3/8
1-36AS	35.63	3/8
3-12A	11.56	1/2
3-20A	19.56	1/2
3-30A	29.56	1/2
3-36A	35.56	1/2
3-36C	35.56	1/2

Listings & Certifications:

- IAPMO listed to ASME A112.18.1 / CSA B125.1 (File # 0645)
- CSA listed to ASME A112.18.1 / CSA B125.1 (File # 204593)
- Compliant product CSA listed to Low Lead Content Certification Program – Plumbing Prouducts Class 6853-01



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400.200 1-**A/ 3-**A Copper Faucet Riser - One-Piece with Insert REV 10/12

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Product Submittal Form 4342

FCO





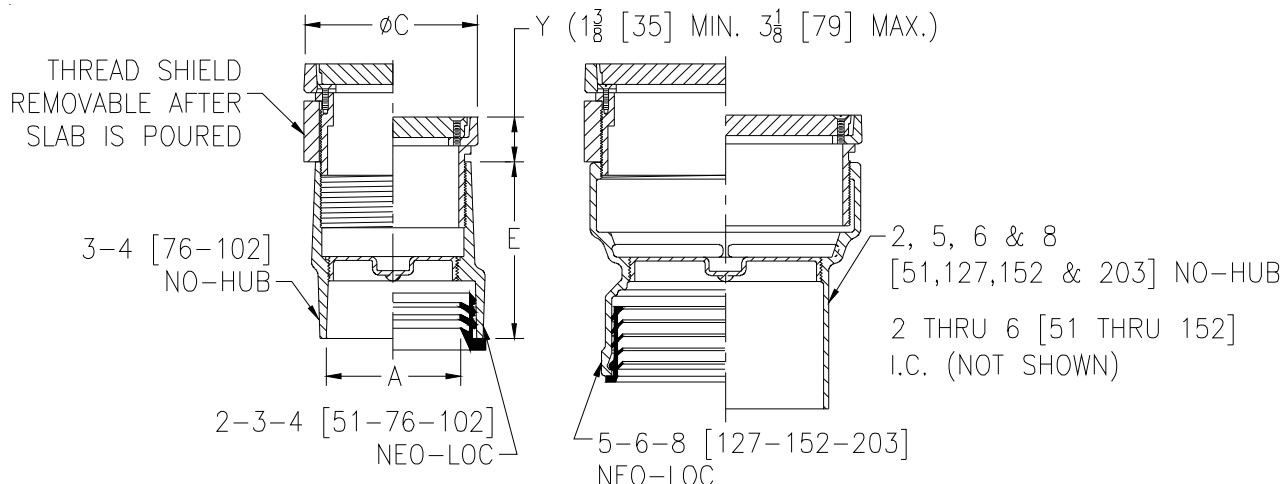
Z1400

HEAVY-DUTY "LEVEL-TROL" ADJUSTABLE FLOOR CLEANOUT

SPECIFICATION SHEET

TAG _____

Dimensional Data (inches and [mm]) are Subject to Manufacturing Tolerances and Change Without Notice

**ENGINEERING SPECIFICATION: ZURN Z1400**

"Level-Trol" Adjustable floor cleanout, Dura-Coated cast iron body with gas and watertight ABS tapered thread plug and round scoriated cast iron heavy-duty secured top (Specify finish Z, ZB, ZN, ZS) adjustable to finished floor.

Dimension In Inches			Approx. Wt. Lbs. [kg.]
A-Pipe Size	C	E	
Inside Caulk			
2 [51]	6-1/8 [156]	6-7/8 [175]	13.8 [6.3]
3 [76]	6-1/8 [156]	6-7/8 [175]	14 [6.4]
4 [102]	7-1/4 [184]	6-7/8 [175]	18.3 [8.3]
5 [127]	8-1/4 [210]	6-7/8 [175]	22.6 [10.3]
6 [152]	9-1/4 [235]	6-7/8 [175]	32.2 [14.6]
No-Hub			
2 [51]	4-1/8 [105]	4-5/8 [117]	7 [3]
3 [76]	4-1/8 [105]	4-3/4 [121]	7.7 [3.5]
4 [102]	5-1/8 [130]	4-3/4 [121]	10.3 [4.7]
5 [127]	7-1/4 [184]	7-1/2 [191]	17.6 [8]
6 [152]	8-1/4 [210]	4-3/4 [121]	22.2 [10.1]
8 [203]	9-1/4 [235]	7-1/2 [191]	29.9 [13.6]
Neo-Loc			
2 [51]	4-1/8 [105]	4-3/4 [121]	7.9 [3.6]
3 [76]	5-1/8 [130]	4-3/4 [121]	10.6 [4.8]
4 [102]	5-1/8 [130]	4-3/4 [121]	11.9 [5.4]
5 [127]	7-1/4 [184]	6-1/2 [165]	18.7 [8.5]
6 [152]	8-1/4 [210]	5-7/8 [149]	21.9 [9.9]
8 [203]	9-1/4 [235]	6-1/2 [165]	23.5 [10.7]

OPTIONS (Check/specify appropriate options)**PREFIXES**

- ☐ Z Dura Coated Cast Iron*
☐ ZB D.C.C.I. w/ Polished Bronze Light-Duty Top
 (Deduct 1/2 [13] from 'Y' Dim.)
☒ ZN D.C.C.I. w/ Polished Nickel Bronze Light-Duty Top
 (Deduct 1/2 [13] from 'Y' Dim.)
☐ ZS D.C.C.I. w/ Polished Stainless Steel Heavy-Duty Top
 (Add 3/16 [5] to 'Y' Dim.)

SUFFIXES

- ☐ -AR Acid Resisting Epoxy Coated Finish
☐ -BP Bronze Plug
☐ -CF Carpet Flange Cover (ZB and ZN only)
☐ -CM Carpet Marker
☐ -DC Duresist Cover
☐ -DX Round ZB or ZN Top with Dex-o-tex Flange
 (2 thru 4 [51 thru 102] Sizes only)
☐ -G Galvanized Cast Iron
☐ -HD Heavy-Duty Veneer Top (Add 1/8 [3] to 'Y' Dim.)
 (ZB and ZN only)
☐ -K Anchor Flange
☐ -KC Anchor Flange w/ Clamping Collar
☐ -SG Solid Gasketed Cover
☐ -SM Special Marking Stamped on Top
☐ -T Square Top
☐ -TC Neo-Loc Test Cap Gasket
 (2-4 [51-102] NL Bottom Outlet Only)
☐ -TX Square Top Recessed for 1/8 [3] Tile
 (ZB and ZN only)
☐ -VP Vandal-Proof Screws
☐ -X Round Top Recessed for 1/8 [3] Tile
 (ZB or ZN only)
☐ -Z Round Top Recessed for 1-1/4 [32] Terrazzo
 (ZB or ZN only)

PIPE SIZE

2 thru 6 [51 thru 152]
 2 thru 6-8 [51 thru 152-203]
 2 thru 6-8 [51 thru 152-203]

(Specify size/type) **OUTLET**

- ☐ IC Inside Caulk
☐ NH No-Hub
☒ NL Neo-Loc

'E' BODY HT. DIM.

See Chart
 See Chart
 See Chart

*REGULARLY FURNISHED UNLESS OTHERWISE SPECIFIED

REV. O DATE: 11/03/10 C.N. NO. 1202

DWG. NO. 58757

PRODUCT NO. Z

ZURN INDUSTRIES, LLC. ♦ SPECIFICATION DRAINAGE OPERATION ♦ 1801 Pittsburgh Ave. ♦ Erie, PA 16514

Phone: 814/455-0921 ♦ Fax: 814/454-7929 ♦ World Wide Web: www.zurn.com

In Canada: ZURN INDUSTRIES LIMITED ♦ 3544 Nashua Drive ♦ Mississauga, Ontario L4V1L2 ♦ Phone: 905/405-8272 Fax: 905/405-1292



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COTG





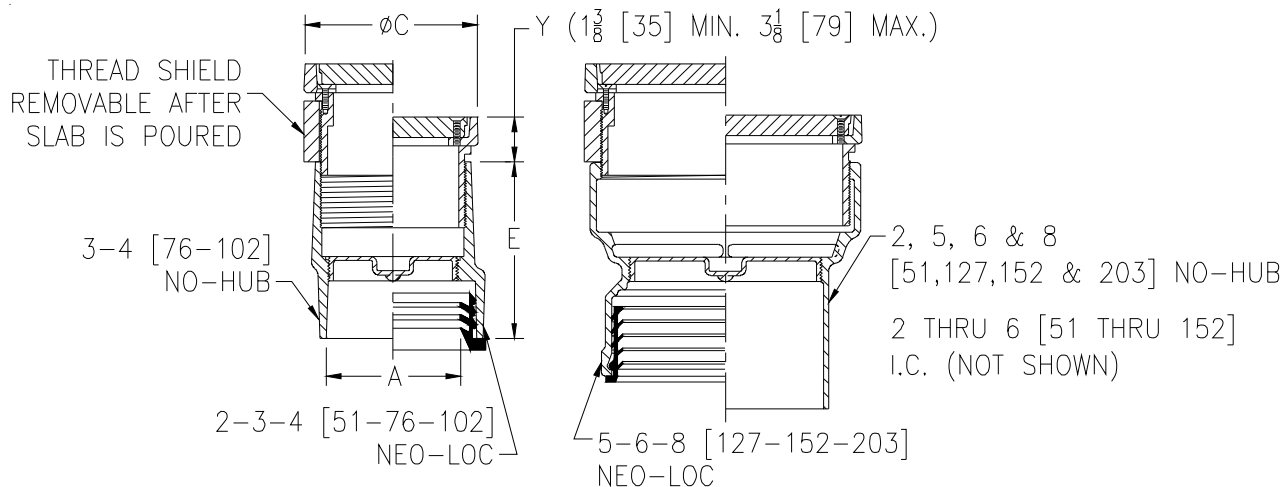
Z1400

HEAVY-DUTY "LEVEL-TROL" ADJUSTABLE FLOOR CLEANOUT

SPECIFICATION SHEET

TAG _____

Dimensional Data (inches and [mm]) are Subject to Manufacturing Tolerances and Change Without Notice

**ENGINEERING SPECIFICATION: ZURN Z1400**

"Level-Trol" Adjustable floor cleanout, Dura-Coated cast iron body with gas and watertight ABS tapered thread plug and round scoriated cast iron heavy-duty secured top (Specify finish Z, ZB, ZN, ZS) adjustable to finished floor.

Dimension In Inches			Approx. Wt. Lbs. [kg.]
A-Pipe Size	C	E	
Inside Caulk			
2 [51]	6-1/8 [156]	6-7/8 [175]	13.8 [6.3]
3 [76]	6-1/8 [156]	6-7/8 [175]	14 [6.4]
4 [102]	7-1/4 [184]	6-7/8 [175]	18.3 [8.3]
5 [127]	8-1/4 [210]	6-7/8 [175]	22.6 [10.3]
6 [152]	9-1/4 [235]	6-7/8 [175]	32.2 [14.6]
No-Hub			
2 [51]	4-1/8 [105]	4-5/8 [117]	7 [3]
3 [76]	4-1/8 [105]	4-3/4 [121]	7.7 [3.5]
4 [102]	5-1/8 [130]	4-3/4 [121]	10.3 [4.7]
5 [127]	7-1/4 [184]	7-1/2 [191]	17.6 [8]
6 [152]	8-1/4 [210]	4-3/4 [121]	22.2 [10.1]
8 [203]	9-1/4 [235]	7-1/2 [191]	29.9 [13.6]
Neo-Loc			
2 [51]	4-1/8 [105]	4-3/4 [121]	7.9 [3.6]
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4 [102]	5-1/8 [130]	4-3/4 [121]	11.9 [5.4]
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 (Add 3/16 [5] to 'Y' Dim.)

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 (2 thru 4 [51 thru 102] Sizes only)
☐ -G Galvanized Cast Iron
☐ -HD Heavy-Duty Veneer Top (Add 1/8 [3] to 'Y' Dim.)
 (ZB and ZN only)
☐ -K Anchor Flange
☐ -KC Anchor Flange w/ Clamping Collar
☐ -SG Solid Gasketed Cover
☐ -SM Special Marking Stamped on Top
☐ -T Square Top
☐ -TC Neo-Loc Test Cap Gasket
 (2-4 [51-102] NL Bottom Outlet Only)
☐ -TX Square Top Recessed for 1/8 [3] Tile
 (ZB and ZN only)
☐ -VP Vandal-Proof Screws
☐ -X Round Top Recessed for 1/8 [3] Tile
 (ZB or ZN only)
☐ -Z Round Top Recessed for 1-1/4 [32] Terrazzo
 (ZB or ZN only)

PIPE SIZE

2 thru 6 [51 thru 152]
 2 thru 6-8 [51 thru 152-203]
 2 thru 6-8 [51 thru 152-203]

(Specify size/type) **OUTLET**

- ☐ IC Inside Caulk
☐ NH No-Hub
☒ NL Neo-Loc

'E' BODY HT. DIM.

See Chart
 See Chart
 See Chart

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